

REPORT

ON THE

FOREST ADMINISTRATION

OF THE

CENTRAL PROVINCES

FOR THE YEAR

1912-13

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No. 306-C., dated Delhi, the 13th March 1914.

File No. 91 of 1914. Serial No. 2.

From—The Hon'ble Sir Edward MacLagan, K.C.I.E., C.S.I., I.C.S., Secretary to the Government of India, Department of Revenue and Agriculture,

To-The Hon'ble the Chief Commissioner, Central Provinces, Nagpur.

I am directed to acknowledge the receipt of Mr. Gordon's letter No. 142—XIV—8-11, dated the 16th February 1914, forwarding copies of the report on forest administration in the Central Provinces during the year 1912-13, together with the Chief Conservator's review and the resolution of the Chief Commissioner thereon.

2. The Government of India note with pleasure the steady progress in general forest administration, particularly as regards the expansion in communications, the progress in the provision of quarters for subordinates, the success of fire protection, which has been accompanied by a reduction in cost, and the very satisfactory financial results.

263.95 N.



Central Provinces Administration

FOREST DEPARTMENT

Nagpur, the 12th February 1914.

RIAD -

Reports of the Conservators of Forests on the Administration of the Northern, Southern and Berai Circles for the year 1912-13

Review by the Chief Conscivator of Forests on Forest Administration in the Central Provinces for the year 1912-13

RESOLUTION

The financial success of the Department is fully evidenced by the Report of 1912-13. The surplus has risen from Rs. 7,52,861 to Rs. 11,78,372, or an increase of over 4 lakhs, while the excess over the average surplus for the quinquennium preceding 1910 is nearly six lakhs of rupees, and the percentage of net to gross revenue has tisen from 27 for the quinquennium 1906-07—1910-11 to 29 in 1911-12 and to 38 in 1912-13. These figures go far to remove the reproach of excessive costliness, on a comparison of expenditure with income, which was not long ago brought against the Forest Department in these Provinces.

All Circles have shared in this satisfactory increase, but the Chief Commissioner notices with especial pleasure the recovery made in the Southern Circle, where, excluding grass operations for Bombay, expenditure rose by Rs. 8,571 only as compared with an increase of Rs 2,41,398 in revenue. This satisfactory position must be considered as the beginning of the return due from the forests for a long period of nursing and care. The increase in communications has enhanced the value of forest produce, and with continued attention to this first necessity for satisfactory exploitation, the Chief Commissioner confidently expects in normal years a steady expansion of the surplus.

The reorganisation of the subordinate establishment has long been felt as a crying need of the Department, but has been delayed until forest revenues should show sufficient recovery to warrant the high expenditure involved. In view of the increased revenue and the financial position shown by the report of the current year, the Chief Commissioner has been able to submit for the approval of the Government of India orders giving effect to such parts of this long-required reform as relate to Forest Rangers and Forest Guards. The remainder of the scheme must be left over for a future occasion. The pay of the clerical staff also needs improvement, but this can probably be effected at small cost by a reduction in the number of clerks, accompanied by an improvement in the pay of the posts retained

2. By far the most important contributories to the largely increased receipts are the teturns received from timber and grazing, especially the latter. The increase in grazing receipts is due to the introduction of new rules and enhanced rates in the Central Provinces. This measure caused some dissatisfaction

among the people, and the total number of cattle which grazed in the districts under the new rules fell by 10 per cent but the Chief Commissioner is fully prepared to accept the assurances of local officers that the new rates are not burdensome to the people. Even now the rate for bond fide plough-cattle is only from one to two annas, except in the seriously overgrazed Nagpur-Wardha forests and in certain areas of Nimar, where rates of three and tour annas respectively are taken, and for these small sums a cultivator may graze an animal, if he so desires, for a whole year. But there is one important matter, in connection with the grazing rules, to which the attention of district officers has been especially directed, and which the Chief Commissioner desires to bring again to their notice, and that is the necessity of ensuring that the people thoroughly understand the rules; if they are not properly understood by the villagers, the result is to place undesirable power in the hands of low-paid subordinates.

The Conservator. Southern Circle, brings to notice that at present concessions are based on the number of working ploughs, irrespective of area, and that this gives an opportunity for patwaris to abuse their position by showing an altogether fictations number of norking ploughs as possessed by cultivators. The matter is receiving the attention of the Administration.

- the Province as a whole, the highest incidence being, as usual, in Berar, where in the C Class areas it was less than one acre. It might have been expected that, in Berar at any rate where the grazing incidence is so high, the policy of "cheap grass and dear grazing" would have fostered the practice of laying in fodder for stall-feeding. But the experiments, which were continued again in conformity with the orders in last year's Resolution, were somewhat disappointing in all three Circles. In the Damoh District the Agriculture Department gave advice as to the species of grass to be pressed, but out of 96 tons cut and 71 baled, only 4½ tons baled and 8 tons loose were sold to agriculturists. In the Southern Circle the results were better, but only 2 tons were sold to agriculturists, the remainder being disposed of elsewhere. In the Berar Circle the results were more satisfactory, and 174 tons were disposed of to agriculturists as against 476 to others. Progress, however, in the introduction of an innovation of this, kind must necessarily be very slow, and the Chief Comservator of Forests would appear to think. It must be remembered that even if the operations does not think that the outlook is so unpromising as the Chief Conservator of Forests would appear to think. It must be remembered that even if the operations do not bring in a good deal will have been achieved, and he will have one more weapon in his armoury for defence in times of scarcity. The Chief Commissioner considers that the matter is deserving of further experiment.
- 4. Good progress was made during the year with the demarcation of boundaries, particularly in Saugor, where in the last three years a great deal of useful work has been done in rectilying unsuitable boundaries by exchanges of forest with privately owned areas in this way, without any appreciable loss of forest areas, boundary lines have been reduced by 90 miles and 1,136 pillars eliminated. The Chief Commissioner thinks that there must be scope in many other districts for measures of this kind, which result in a saving of expenditure on the maintenance of boundaries, and of trouble to the villagers whose lands are adjacent to the forests. In Berar good progress has been made in the disforestation of the small C Class areas, which are not worth administering as Government forest, but are useful as additions to the village grazing grounds.

No working-plans were published during the year, but orders were passed on the reports of the special Revenue Officers in connection with the Nimar, Chhindwara and Bilaspur Plans. Pending the revision of the Melghat Working-plan, which is now in progress, special steps have been taken to ensure that the inhabitants of the recently distorested villages in the Melghat shall continue to receive the forest concessions which they were formerly granted

5. The expenditure on communications rose by Rs. 29,949, three-fourths of the excess being due to the construction of new works, chiefly in the Berar Circle. No less than 210 miles of regular cart roads were constructed with numerous other coupe and feeder roads, and 234 mile of alignments were effected. The construction of these works should do much to open up the forests and exploit inaccessible tracts such as the Sonewani Range in Balaghat or the South Sihawa Range in Raipur. The difficulties of crossing the Wainganga river in Chanda, which have hitherto prevented the proper exploitation of the Allapilli teak-torest, are now being met by the construction of a substantial causeway by the Public Works Department at a cost of Rs 35,000.

The outlay on tanks and wells fell by Rs. 10,000 during the year. It is reported that few, it any, tanks are required in the Southern Cucle for watering cattle, but in the Berar Circle wells are urgently required. The experiment of building temporary bunds as was done in Nimar, should alford useful results, and the Chief Commissioner would like to see it continued. At the same time, Mr. Crump agrees with the Chief Conservator that it may well be worth while to construct more permanent bunds. If suitable sites are available, permanent barrages of water-ways will probably be cheaper, in the long run, than temporary operations which have to be annually renewed

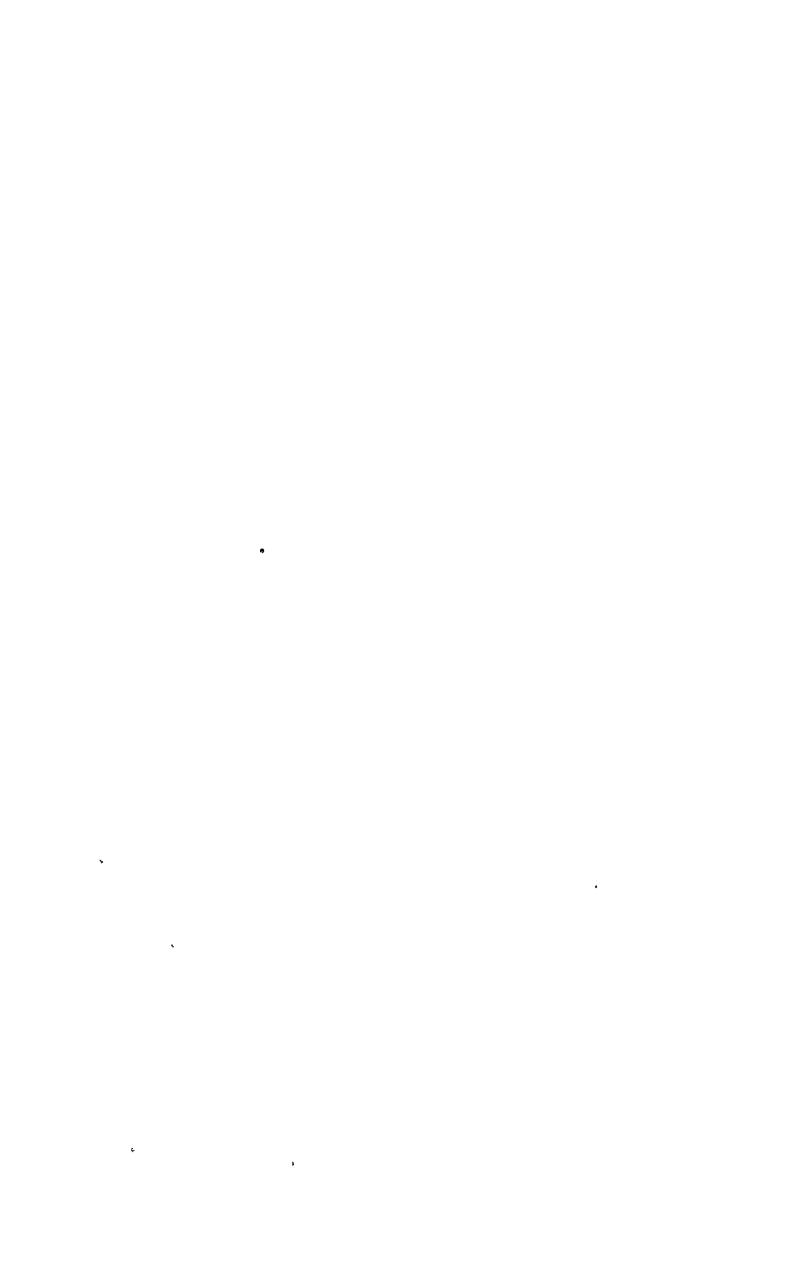
- of fire cases, which have fallen by 30 per cent, due no doubt in some part to the character of the season and the carly rainfall. The number of offences under other heads has, however, riven but it would appear that under the head "unauthorised tellings" there has been an increase rather of cases reported than of actual offences. As might have been expected from the introduction of the new grazing rules, cases of unauthorised grazing have increased; but as the people become accustomed to the new rules, this tendency should disappear, and it may be hoped that the increase is only temporary. In Berar the scarcity of fodder apparently led people to graze their cattle in closed areas with the hope of escaping detection. As pointed out by the Chief Conservator, to assess compensation in such cases at a figure little higher than the fine recovered at a cattle-pound is directly to encourage offences; if the offender escapes detection, he gets his grazing free; if he is caught, he is no worse off than if his cattle had been sent to the pound. The penalty assessed should, therefore, be sufficiently high to he a real deterrent.
- 7. The Chief Commissioner congratulates the Department on the satisfactory working of the year, and his thanks are due to Mr. Hart and Mr. Hill for the continued efficiency shown in the administration of the Department, and to the other officers whose names have been brought to his notice.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Revenue and Agriculture Department, and that a copy be forwarded to the Chief Conservator of Forests, and to the Conservators of Forests, Northern Circle, Southern Circle, and Berai Circle, for information and guidance; also, that it be published in the Supplement to the Central Provinces Gasette.

J. HULLAH,

Third Secretary to the Chief Commissioner,

Central Provinces.



REPORT

ON

FOREST ADMINISTRATION

IN THE

FOR THE YEAR 1912-13.

CHAPTER I.

CONSTITUTION OF STAFE FORESTS.

3_Claus I -AI FERATION IN AREAS (FORM NO 7).

MORTHERN CIRCLE.

1. From No 7 show the charges in forest areas during the year, the net result bring a decreas of 1,821 acres or 2.8 square miles in the total area which was 7,35° equal miles as against 7,354 at the close of the preceding year.

2. The details are as follows ---

Mandla (North and South) Division.—The area was reduced by 990 acres due to correction of errors in previous years.

Jubbul por c-Narsi coppur (vld) Divis on -The area was increased by 20 acres in the Dhanwahi range which had been left out by the survey party.

Damoh Fighty acros were disforested in exchange for an equal area of the malguzari land afforested during the year, the net difference being nil.

Sauger—In all 739 acres were added and 1,319 excluded, the net result being the decrease of 560 acres. The details of changes are (1) 19 acres were added and 4 deducted due to correction of area in accordance with the figures of forest surveys, (2) 48 acres were excluded in conformity with the nativation for disforestation issued as far back as 1896 which was overlooked at the time and in succeeding years, (3) area of the Rahatgarh block was reduced by 164 acres in a der to form a separate block, which now constitutes a new block and (4) 103 acres were disfore ted in exchange for 256 acres of malgurari land in a der to improve the forest boundaries. For the purpose of effecting this improvement a special officer (Mr. Sarwite, Extra-Assistant Conservator of Forests) has been deputed since. October 1912. In that direction great improvement has been effected within the part three years since the existing boundary lines have been reduced by 90 miles and no less than 1,136 pillars have been dismantled.

In the Hoshangabad Division, although the malguzari villages of Indpura and Singola, purchased during the year, have been handed over to the Forest Department, yet their acquisition was not formally notified during the year

Scout.—Fifty-nine acres were excluded and 7 added owing to the rectification of boundaries with reference to the settlement maps. Also 17 acres were deducted as a notification of disforestment issued in 1902 was discovered to have been overlooked. The net result was a reduction in area of 69 acres.

Chhindwara.-- The total area was reduced by 202 acres, viz, by disforesting 204 acres as wrongly included in the reserved forests and 9 acres in exchange for 11 acres of the malguzari forests to improve the existing boundary.

B-I Class.

3. This class of forests is restricted to the Mandla and Chhindwara Divisions and was not affected by any change during the year. Steps have, however, already been taken with a view to disforest the whole of the area in the Mandla Division and the greater portion of it in Chhindwara, as it consists entirely of regularly settled ryotwari villages.

SOUTHERN CIRCLE.

4. The net results of the changes during the year as exhibited in Form No. 7 show a net decrease of 23,790 acres or 37 square miles. Under A Class forest 9,046 acres were afforested for the first time and 7,235 acres disforested mostly on account of exchange of area. An area of 6,497 acres was transferred from B Class to A Class and 1,575 acres of A Class forest transferred to the charge of the Irrigation Department. The total increase in A Class forest amounted to 13 square miles. Under B Class forests 615 acres were added during the year, 26,216 acres were disforested, making a decrease of 50 square miles or a total decrease in the forests, under charge of the Department, of 37 square miles.

BERAR CIRCLE.

5 The total area of Government forests of all classes in the Circle stood at 6,255 square miles at the close of the year as compared with 6,682 at the commencement, thus giving a net decrease of 427 square miles.

In Berar proper the A Class forests show a net gain of 806 acres. In Amraoti 648 acres were transferred from C Class as being suitable for the formation of permanent babul bans. In Buldana 70 acres were afforested to improve the boundary and extend the cultivation of Palasdhag forest village. In Yeotmal two areas aggregating 86 acres were obtained by exchange with some H Class lands, while 20 acres were reduced by correction of area on resurvey. In Akola three areas aggregating 38 acres were afforested in part exchange for an area of 50 acres in order to get rid of internal cultivation and to improve boundaries, while two acres were required for the construction of the Murtizapur-Yeotmal Railway and were disforested.

- 6. In B Class forests no changes occurred.
- 7. In C Class forests the net decrease amounted to 36 square miles: the details being as follows:—

In Amraoti 684 acres of babul bans were transferred to A Class, as mentioned above, and 8,054 acres in small blocks of less than 160 acres each were disforested for village free grazing lands. In Buldana 11,002 acres in small blocks were disforested for free grazing and 24 acres were disforested in exchange to improve the boundary, while 244 acres were received by transfer from Akola Division for convenience of management. In Yestmal 5,344 acres were received by transfer of several villages from the Akola Division for administrative reasons, 427 acres were added and 331 acres lost in various blocks by correction of area on resurvey. In Akola 12 acres were afforested in exchange as part of the transaction mentioned under A Class, 3,510 acres in small blocks were disforested principally for free grazing areas while, as mentioned above, 244 acres were transferred to Buldana and 5,344 acres to Yeotmal for administrative reasons. Of D Class 6,760 acres in Akola were disforested principally for free grazing areas.

Good progress was made in carrying out the policy of disforesting small blocks of C Class forest, thus removing a cause of considerable trouble to the people and difficulty in administration. Proposals for similar disforestments in the Morsi taluq of Amraoti were submitted during the year but had not received sanction before its close. Proposals for Yeotmal are under preparation and will be submitted shortly. When these are approved and notified this work will be complete for Berar and the forests will have attained the figure of area at which they will stand permanently.

In Nimar the area of A Class increased by 1,651 acres owing to recalculation of areas. Of B-I Class 169,530 acres were formally disforested for ryotwati settlement which system had been fully established in this area, and 459 acres were deducted by recalculation of area. In Betul 6,632 acres of A Class and 69,394 acres of B-I Class were disforested for ryotwari settlement, 2,562 acres were transferred from B-I to A Class, and 18 acres were added to B-I Class by recalculation of areas.

The disforestment of A Class was merely an adjustment of areas in Form No. 7. The actual plots disforested were those originally proposed for excision, but when they were finally handed over to the Revenue authorities their areas as ascertained by a detailed survey differed considerably from those which had been entered in the returns of this Department and consequently considerable adjustments were needed between A and B-I Classes. In Betul 4,981 acres remain for disforestment which will be performed when the plots are sufficiently settled to be taken over by the Revenue Department.

SECTION 2.—FOREST SETTLEMENT (FORM No. 8).

NORTHERN CIRCLE.

8. '13, '4 and '01 square miles were finally settled, respectively, in the Damoh, Saugor and Chhindwara Divisions, and 2'68, '45, 2'08, '35, '28 and '34 square miles still remained under settlement at the close of the year in the Mandla, Damoh, Saugor, Jubbulpore-Narsinghpur, Seoni and Chhindwara Divisions. The Deputy Commissioner was the Settlement Officer in all cases.

The final notification constituting as reserved forests 35 square miles of unsettled area, referred to in the last Administration Report, was not issued although the settlement has been completed.

'24 square miles under settlement in the Hoshangabad Division appear to have been previously constituted reserved forests and action is, therefore, being taken to cancel the present notification.

'28 square miles shown under settlement in the Seoni Division and referred to in the last report, were required to improve the condition of fire protection in the Ugli range and after the principal malguzar had eventually come to terms his action was opposed by some of his shareholders who do not seem inclined to arrive at an agreement. It became necessary, therefore, to acquire the land but it has not yet been finally notified as reserved forest.

SOUTHERN CIRCLE.

9. Fair progress was made in the work of settling a large number of comparatively small areas. There were two cases involving 35 acres in North Chanda and Nagpur-Wardha which had been shown as outstanding for over a year.

The area of 32 acres in Khutunda (North Chanda Division) has been shown apparently by error as under settlement for the last 18 years, but it was decided as far back as 1896 that it was undesirable to afforest this area, which has accordingly been excluded from Form 8 of the current year.

of certain excised areas to the Forest Department especially in the Garchiroli tahsil. These areas are apparently not occupied by proper villages and some of the cultivation is merely nominal in order to obtain grazing for herds of pastoral tenants of malguzari villages. This abuse is being put a stop to, but he urges the desirability of the examination of these areas by a competent Revenue Officer.

BERAR CIRCLE.

and Akola, respectively, while '09, 668 and '72 square miles were taken in hand and were in process of settlement at the close of the year in Yeotmal, Akola and Betul. In all cases the Deputy Commissioner was the Forest Settlement Officer.

In addition to the above, the provisions of the Land Acquisition Act were resorted to for the acquisition of 3.55 acres in Betul to rectify a boundary, the cost of the acquisition being Rs. 99-4-9, but further proceedings for the forest settlement of the plot were not instituted before the close of the year.

The necessary proceedings under the Land Acquisition Act were instituted in respect of various plots to be afforested in Yeotmal and Akola, but were not brought to the stage at which the forest settlement procedure could be put in motion within the year.

SECTION 3.—DEMARCATION (FORM No. 9).

NORTHERN CIRCLE.

12. Form No. 9 gives the details of work done and expenditure incurred under this head.

13. The details of classification of work done on the boundary lines are as follows:-

| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | Miles. |
|---|-----|--------|
| (1) Length of lines over which all pillars have been | | 1,174 |
| put into thorough repair. (a) Length clossed without reference to fire protection | | 5,709 |
| (3) Longth checked with survey maps | ••• | 1,661 |
| (4) Number of pillars repaired | *** | 8.915 |

- 14 A five years' scheme of boundary works was prepared for Jubbulpore, Daniel Hesharehad and Chhirdrara, and sunctioned during the year. The You, scheme has been kept pending until the revision and simplification of boundarie, in conjunction with the revision settlement of the district, is completed.
- The demarcation of new boundaries occurred in Mandla, Saugor and Chhindwara Division only. In Mandla it was undertaken with a view to settle boundary dispute and in Saugor and Chhindwara it was necessitated by the exchange of Government forests with the malguzari areas as also by the establishment of two new forest villages in the latter Division. The work covered 36 miles in length and the total cost was Rs. 137. The whole of this was spent in the Saugor Division, the other two having done it without expense. Four pillars were newly erected in Damoh. 7 in Chhindwara, 62 in Saugor and 5 in Seoni, in the former two without cost and in the latter two at a cost of Rs. 40 and Re. I respectively. 1,169 pillars costing Rs. 613 were reconstructed in the Saugor Division. Owing to the transfer of areas to the malguzari, 467 pillars were dismantled in the Saugor Division at a cost of Rs. 27, and 15 in Chhindwara and 29 in Damoh without cost. The total expenditure incurred on new works under this head amounted to Rs. 818. Besides this 34 were spent on the survey of boundaries but the amount was wrongly charged to A-VIII-c
- 16. 5,709 miles of boundary lines were cleared during the year for Rs. 4,713. This includes 139 miles in the Chhindwara Division cleared without cost, material having been given in exchange for wages. In addition 741 miles were cleared with reference to fire protection and the cost was wrongly debited to demarcation. Rs 123 were spent on widening lines 105 miles in extent, including 31 in the Seoni Division, for which material was removed in lieu of cash payment.
- 17 8,915 boundary pillars were repaired at a cost of Rs 2,624 and in addition 17 were spant on petty repairs to 54 pillars in the Seoni Division. Of these 62 pillars in the Chhindwara Division were repaired by Forest Guards. The above item also includes Rs 252 expended on replacing the wooden posts of 593 pillars by stone slabs in the Jubbulpore Narsinghpur Division. The total cost on old works amounted to Rs. 7,477.
- 18. In the Saugor Division the elimination of superfluous pillars and renumbering the rest was done completely in Blocks Nos 43—48, 50, 69, 98 and 24 and the work in other blocks is in progress
- 19. The revision and resurvey of many of the boundaries in the Hoshangabad Division again could not be undertaken during the year as no officer was available for the purpose.

SOUTHERN CIRCLE.

- 20 The details of work done and expenditure incurred under this head will be found in Form 9.
- 21. The details of classification of work done on the boundary lines are as follows:—

| | | Miles. |
|--|-----|--------|
| (1) Length of lines over which all pillars have been put | *** | 1,844 |
| into thorough repair. | | |
| (2) Length cleared without reference to fire protection | *** | 2,340 |
| (3) Length checked with the survey maps | *** | 1,632 |
| (4) Number of pillars repaired | *** | 9,243 |

- 22. The five years' scheme of check of boundaries has been drawn up and submitted for the Bhandara, South Chanda and Nagpur-Wardha Divisions. The scheme for Bilaspur and Balaghat appears to have been worked up to, but has apparently been lost sight of in the case of the North Chanda and Raipur Divisions
- The condition of the boundaries in the last named leaves a great deal to be desired and may necessitate the employment of surveyors in the following cold weather.
- 23. The annual clearing of boundaries, where they are not kept up for fire protection, entails considerable expense. In some cases boundaries are supposed to be kept up by raiyots or malguzars under the terms of their leases, but this is not always done It is probable that if one half or one quarter only of the boundary was taken in hand and cleared annually, in those areas which are open to grazing or not under special fire protection, the maintenance of all boundaries would be well assured

BERAR CIRCLE.

24. The details of work done and the expenditure incurred are shown in Form No 9. The total length of boundaries at the close of the year amounted to 14,524 miles which great length is due to the existence of large numbers of small forest blocks in Berar.

Last year the total length of boundary in Nimar was erroneously shown in Column 8 of Form 53 as 640 miles only; the figure is now correctly given as 1,365, after careful check with the maps.

The det ils of work don- on boundary lines are as follows:-

| | | Miles |
|---|-------|------------|
| (1) Length of lines repaired thoroughly | | 990 |
| (2) Length cleared without reference to fire protection | | 904 |
| (3) Length checked with survey maps . | • • • | 482 |
| (4) Number of boundary pillars repaired | No. | 5,131 |
| and in Berar Division | | . . |
| Warlies repaired | . ,, | 10,351 |
| Gotas repaired | ») | 279 |

25. The five years' scheme of repairs to boundaries was worked upto in all Divisions except Betul with a deficit of 26 miles.

SECTION 4.—FOREST SURVEYS (FORM No. 10).

NORTHERN CIRCLE,

- 26. No surveys were undertaken by the Survey of India party during the year, two maps on the scale 1"=4 miles (of Saugor and Seoni) were published during the year; one of Damoh, was in press and one of Hoshangabad was in an earlier stage of preparation.
- 27 The total expenditure incurred on the constitution of State forests amounted to Rs. 28,690 against Rs 8,603 of the preceding year.

SOUTHERN CIRCLE

- 28. With the exception of surveys by local officers of forest villages in a few divisions, no work under this head was done during the year. A good deal of survey work remains to be done in mapping afforested areas in the Balaghat and Bhandara Divisions, as well as roads and fire lines in the Raipur and North Chanda Divisions.
- 29 The total expenditure incurred on the constitution of state forests amounted to Rs. 8,313 against Rs. 8,328 of the preceding year.

BERAR CIRCLE.

30. No. 6 Party (Southern Circle), Survey of India, continued the topographical survey of Berar. In Yeotmal, where the survey is now completed, 124 square miles were surveyed, in Akola 97 square miles and in Buldana 154 square miles, all on the scale of 2"=1 mile. Besides the above plane table surveys of

boundaries on the scale of 4"=1 mile were carried out over 380 linear miles in Akola and 605 linear miles in Buldana. No charges for this survey are debited to the Forest Department.

In the Melghat Division the interior detail of 44 forest villages was surveyed at a cost of Rs. 699.

No other expenditure on regular surveys was incurred, the balance of expenditure incurred being due to the cost of maps supplied.

31. The total expenditure on the constitution of State forests was Rs. 23,505 of which Rs 15,557 was paid to the Melghat Rajas as compensation for forest rights.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

SECTION I .- REGULATION OF MANAGEMENT (FORM NO 11).

(a) PREPARATION AND CONTROL OF REGULAR WORKING PLANS.

NORTHERN CIRCLE.

- 32. New Plans.—The revised plan for the Chhindwara Division was prepared and finally submitted by the Forest Divisional Officer by the end of the year and was forwarded to the Chief Conservator of Forests after its close.
- 33. Old Plans.—The provisions of the sanctioned working plans were adhered to as far as circumstances permitted. As heretofore the prescriptions of the working plan had to be abandoned over a greater portion of the Korai and Ganginala ranges for want of demand. Only one felling series in the Damoh Division remained unworked during the year (as was also the case last year) as the road required to open it up could not be constructed during the year by the Public Works Department.

A rough scheme of working for the Khanat sal forests in the South Mandla Forest Division is reported to have been prepared by the Forest Divisional Officer (but not submitted) during the year on the lines prescribed by the Chief Conservator of Forests.

In the Saugor Division the prescriptions of the existing working plan were slightly modified under the orders of the Chief Conservator of Forests (as stated in the last report) by a reduction in the minimum number of standards to be retained under the coppice with standard system from 50 to 30 per acre. This has enabled a large proportion of useless material to be removed and increased the revenue at the same time. A new working scheme for the Garhakota reserve has been sanctioned and is to be introduced from the year 1913. In the Hoshangabad Division the amended working plan in respect of the bamboo working in the Rahatgaon and Magardha ranges was followed. For want of a purchaser for the coupes of the Bori reserve the provisions of the revised working plan as regards fellings could not be followed. Four out of the eight felling series in the Sohagpur range still remained unworked but, as explained in the last report, this is of little consequence as the produce is of low value. The improvement fellings elsewhere were carried on on the same lines as in the previous year and the intensity of working was more in accordance with the working plan and the views of the Chief Conservator of Forests expressed in 1911. The dual system of marking certain species for felling and certain for reservation has been given up as unsatisfactory (as was explained in the preceding year's report) and the old system of marking for felling was resumed.

SOUTHERN CIRCLE.

34. New Plans.—There are three divisions, namely, Balaghat (part), Bhandara and South Chanda (part) in which recently sanctioned revised working plans are now in force over 126,533 and 73 square miles respectively. Revised

working plans of Nagpur-Wardha and South Chanda Divisions are still in the press and though they have not been formally sanctioned their prescriptions are being carried out. The revision of the Bilaspur working plan was completed during the year by the Divisional Forest Officer and the orders of Government on the Revenue Officer's report are awaited, pending which sanction has been obtained to putting the revised provisions into force.

Old Plans.—The work of revising working plans in the Balaghat (part) and Raipur Divisions was continued during the year, Messrs. Carr and Townshend being specially appointed Working Plans Officers for the purpose. Some delay is likely to be caused in both divisions, but more particularly Raipur, owing to the maps of these forests not having been kept up to date in the past as regards boundaries, roads and fire-lines.

An officer was appointed to prepare a revision of the North Chanda working plan but comparatively little progress was made as he had shortly after to take charge of the division. The supply of forest produce in this division is almost twice the demand, so that there is no great urgency in revising the present working plans which are not altogether unsuitable. The forests moreover are in a somewhat doubtful position owing to possible disforestments for irrigation projects in the future, and little progress has been made in mapping internal roads and fire-lines which are normally used as bases for boundaries of felling series and coupes. This work preliminary to the working plan will be taken in hand

The 307 square miles shown in Column 6 against South Chanda, the area comprising the Sironcha range, has been transferred to Column 7. Owing to unlimited commutation, browsing by goats and a very poor soil, this range is almost devoid of forest vegetation so that the preparation of a working plan may well be deferred until such time as the effect of Government orders putting a stop to these practices can be seen.

BERAR CIRCLE.

35. Working plans were in various stages of preparation in six out of the seven divisions

In Melghat Mr Donald collected information in the new reserves at the beginning of the season until he was transferred to the Imperial Forest College in February. Mr. Mason carried on the work for a few days in April, when he was also transferred, after which, until the end of the year, no officer was available for this work.

In Amraoti the field work was completed and a beginning made of the writing of the plan.

The Buldana plan was completed and sent to press during the year.

Mr. Malcolm on relief from charge of the division made a beginning on the field work for the *Yeotmal* working plan, for which the general lines were laid down after consultation with the Chief Conservator of Forests on tour in the division.

The Akola plan has not yet been completed.

The Nimar plan was sent to press during the year.

Old Plans.—The provisions of the old plans in force were worked up to as far as possible. In the Penganga reserve, owing to absence of demand and inaccessibility of the forest, fellings were in deficit. In Betul also fellings were in deficit in places owing to want of demand. This condition, however, may be expected to improve with the opening of the Itarsi-Badnur Railway. In this division the 10 felling series in the Dabka and Sawalmendha ranges were reconstituted and three felling series in the most accessible parts were formed, the remainder of the forests, where experience has shown a complete absence of demand, being thrown into the unworkable area

(b) PRELIMINARY WORKING PLAN REPORTS.

NORTHERN CIRCLE.

36. No preliminary reports were submitted during the year. As explained in the last report the necessity having arisen in the Seoni Division for the revision of the existing working plan, data are being collected for a preliminary report. In the meanwhile, however, a scheme of fellings for the ensuing years was sanctioned provisionally.

SOUTHERN CIRCLE.

37. No preliminary reports were submitted during the year.

BERAR CIRCLE.

38. A preliminary report for the Melghat Division was submitted and approved during the year.

(c) PLANS OF OPERATIONS.

NORTHERN CIRCLE.

39 These were adhered to with few exceptions:-

Mandla.—The programme of road construction and cutting back operations could not be fully worked up to for want of labour. The most important deviation was the unforeseen collection of harra departmentally in certain ranges, as no adequate offer was received for the purchase of the leases.

SOUTHERN CIRCLE

40. These follow on approved working plans and were carried out as far as the demand for forest produce and funds allotted for expenditure admitted of this being done.

The demand in most divisions is beginning to catch up with the supply available under the old working plan prescriptions, but there are still many inaccessible areas from which, owing to the want of communications, forest produce cannot be exported

BERAR CIRCLE

41. The sanctioned plans were generally worked up to without material deviations.

In Buldana the building of the Purna range quarters at Khamgaon had to be abandoned owing to an unexpected difficulty about the site.

The construction of the Wasali-Chunkheri road proved more expensive than anticipated and progress made was consequently less than proposed.

In Yeotmal the building of range quarters at Darwha was retarded owing to labour difficulties consequent on the approach of railway construction absorbing all skilled labour. The construction of three wells was postponed as suitable sites could not be found. On the other hand the construction of the Yeotmal-Rauldari Road, not anticipated in the Annual Plan of Operations, was carried out under proper sanction with funds obtained from the special grant for road making.

SECTION 2.—COMMUNICATION AND BUILDINGS (FURM No. 12).

(a) ROADS AND BRIDGES.

NORTHERN CIRCLE.

42. Eighty-two miles of regular cart roads were constructed at a total cost of Rs. 18,450 including Rs. 736 spent on account of pay of establishment. Greater portion of this amount was usefully expended in the Hoshangabad Division where alone Rs. 10,680 were devoted to roads 36 miles in extent. Thirty-two miles of feeder roads were also made for Rs. 828 and four miles of Inspection-paths (in the Mandla Division only) for Rs. 25; alignment and road trace work covered-172 miles costing Rs. 1,371. Thus Rs. 20,674 were expended on new works.

43. As noted last year, Bori-Bagra road is the most important of all and the expenditure incurred on its seven sections is summarised below:—

In the Bagra-Paraspani section the only work done was widening the curves and the dangerously narrow portions extending only over 5 chains costing Rs. 24.

Of the Paraspani-Pathai section the excessive gradients were reduced over a length of 4 miles. This section is now complete.

Rs. 17 were expended in completing the Denwa-Kharpalar ghat over the Pathai-Khapa section and nala crossings were improved and excessive gradients reduced at a cost of Rs. 75 over the Khapa-Kareli section which is now complete.

A nala crossing was improved over the Kareli-Churna section and further improvement is being done this year out of the special grant allotment.

A further sum of Rs 75 was spent on the Churna-r hain section in improving the nala crossings and removing projecting boulders. It is also proposed to effect further improvements in straightening the road, metalling sandy stretches and reducing gradients at nala crossings out of the special grant.

The remaining portion of the Harrapala ghat (2 miles) over the Dhain-Boil section was completed for Rs. 762. Further improvements are contemplated, the cost of which will be met from the special grant.

The construction of the Churna-Sakot and Sakot-Kesla roads was continued as was that of Ari-Denwa taken up. The former two have been mentioned in the last report as the continuation of the Bori-Dhain-Churna section of the road and the latter as an improvement to the Khapa-Bagra section, whereby the distance is decreased by 4 miles. On 4 miles of the first road (Churna-Sakot) Rs. 701 were spent during the year and it is now practically complete. Only Rs 323 were spent on the second of the above roads, vis., Sakot-Kesla, chiefly on the ghat to the Tawa river. A portion of this road passes through malguzari land which has to be acquired before the construction can be undertaken. A large proportion of the special allotment is proposed to be devoted to the above three roads, which require improvements on the river and nala crossings and in reducing gradients and straightening curves and metalling stretches of sandy portions.

The other roads in the same division for which funds are provided for from the special grant are Bori-Babhai and Koreamla-Suakachar roads over which Rs. 171 (for 6 furlongs) and Rs. 368 (for 3 miles) have respectively been spent during the year. The first road is to facilitate extraction of timber from Coupes 1 and 2 of Jholi felling series, and the second that of bamboos from the Malni tract, by floating them down the Denwa and Tawa rivers to Bagra.

The special grant alluded to above is for 1913-14 an l amounts to Rs. 21,700 and is not to be confused in the extra grant of Rs. 13,500 for the same year distributed over all the other divisions.

In the same division, besides the above, the construction of (1) Ratakhans ghat (1 mile, cost Rs. 505), (2) Sarangpur-Keria (1 mile, cost Rs. 440), (3) Jijajideo Madikho (4 miles, cost Rs. 1,100), (4) Dhekna-Lakartalai (6 miles, cost Rs. 1,553), (5) Banspani-Khumi (6 miles, cost Rs. 1,544), and (6) Bori-Mahukhal roads (5 miles, cost Rs. 1,604) was also undertaken. The first four will prove very useful by giving easy access to the forests. The last two roads will with some extensions open up, respectively, the whole of the west and east of the Rahetgaon range. The last named road is likely to become one of the most important roads in the division. It may also be noted that for the Banspani-Khumi road Rs. 1,400 were allotted out of the special grant of Rs. 5,000 sanctioned by Government during 1912-13

- 44. In the Saugor Division the cart roads referred to in the last report were completed by an extension of $2\frac{1}{2}$ miles costing Rs. 160 and these have considerably increased the value of the teak growing areas of the Rehli range. A new and important road was also commenced from Suakatha-Kheri in the Deori range and Rs. 316 have been spent over nearly $\frac{1}{2}$ a mile of it. From the special grant Rs. 2,300 have been allotted to it.
- 45. In the Damoh Division Rs. 2,909 and in the Chhindwara Division Rs. 3,334 were spent respectively over 18 and 14 miles of cart roads. The Chhindwara figure includes Rs. 3,000 (covering 9 miles) allotted out of the special grant of Rs. 5,000 referred to above. Other roads in the other divisions are not of sufficient importance to be detailed here except that in the Seoni

Division Rs. 405 were spent (on $\frac{3}{4}$ of a mile) out of the allotment made from the above noted grant.

- 46. Besides the above Rs. 828 were spent on feeder roads 32 miles in length. 172 miles of alignment and road trace work was also done in all divisions (except Jubbulpore-Narsinghpur and Seoni. Of these 172 miles no less than 110 were in the Hoshangabad Division.
- 17. The total amount spent on repairs to cart and feeder roads, etc., was Rs 6,312 covering 864 miles in extent.
 - The total expenditure on new work and repairs amounted to Rs. 26,986.
- 49. The expenditure under roads was Rs. 38,388 as compared with Rs. 29,502 in the previous year Of this Rs. 23,881 was spent on new work and Rs. 14,507 on upkeep; nearly the whole of which was spent in the construction and repair of export cart roads Of new work Rs. 14,647 was spent in the Balaghat, Bilaspur aud Raipur Divisions. Considerable progress was made in the Balaghat Division where 13 miles of road were constructed against 4 miles in the previous year and 7 miles of new alignment laid out in addition. The principal work was the opening out of the Sonawani range to afford feeder roads to the new branch of the Bengal-Nagpur Railway which is extending into the forest to tap manganese deposits. The roads will open up large tracts of m gnificent bamboo forest hitherto little worked and enable timber and bamboos to be exported by rail to Nagpur, Wardha and other large towns on the Great Indian Peninsula Railway. The question of the future construction and exten ion of these feeder roads is intimately bound up with railway traffic which as usual was held up owing to wagons no. being supplied in sufficient quantities to exporters of timber and bamboos.

Considerable progress was also made in the Bilaspur Division where 13 miles of cart roads were mide at a cost of Rs 4,261 compared with 6 miles constructed in the previous year libis included the construction of portions of the Lamni-Keonchi road, the metalling of 13 miles of the Mahraji-Zirano road and the completion of the Karidongri-Boerha road. In Raipur the principal work was the continuation of the Mohdi-Nagri road for extraction of forest produce from the Sihawa range Without roads to tap these somewhat inaccessible areas it will be impossible to carry out the exploitation contemplated under the plan now being revised. Other important works are the Nawaigaon-Bhandak road in the North Chanda Division on which Rs 2,278 was spent for improvements, such as construction of culverts, laying a foundation of gravel on the clayey portions and the casing of gradients at river crossings; the Kanhargaon-Wamanpilli road in the Dhaba range of South Chanda Division on which Rs. 1,806 was spent during the year, this road taps practically the whole Dhaba block connecting with the Allapalli Public Works Department main road. , he more expensive forest roads are being constructed by the Public Works Department after approval by the Civil authorities. This is undoubtedly useful where roads pass through malguzari lands or form connecting links between cultivated tracts of country, but it is difficult to obtain approval to the construction of roads which are used purely for the extraction of forest produce. In Balaghat the Deputy Commissioner objected to the construction of a forest road which ran parallel with a Public Works Department main road at a distance of some three It was not apparently realised that as a rocky ridge separated the Public Works Department road from the suggested forest road that the former road was of no use for extracting timber from the valley up which the forest road had been aligned. In consequence of this objection the road had to be taken off the schedule of Public Works Department projects in the near future. A forest road though sometimes useful to the general public is often only wanted for the export of forest produce pure and simple.

50. This was not used during the year and will not be of use until the construction of the Weinganga causeway is completed.

The establishment has been dispensed with and the tractor laid up under the orders of the Local Administration.

Many of the roads in this Circle, as noted above, go to feed the railway and much forest produce is exported from the Balaghat, Bhandara and Chanda Districts to the rich but treeless plains of Wardha and Eastern Berar The railway line from Nagpur towards Bombay was being doubled during the year. It is expected that this work will be finished in about another year's time when the congestion of traffic should be removed.

BERAR CIRCLE.

- 52. The expenditure on roads was Rs. 31,924 as compared with Rs 15,696 in 1911-12. New work cost Rs. 20,862, 54 miles and 56 chains of regular cart roads were constructed at a cost of Rs. 11,127 and 9 miles 76 chains of roads not completed cost Rs. 9,141, Rs. 352 were spent on making 22 miles of coupe and feeder roads, Rs 97 on the alignment of $42\frac{1}{2}$ miles of roads and Rs 147 on making 3 miles 30 chains of bridle paths.
- 53. Repairs cost Rs 11,062. Rs. 10,436 being spent on 1,214 miles of cart roads, Rs. 599 on 316½ miles of bridle paths and Rs. 27 on 14 miles of dragging paths.
- Rs. 8,254, Akola Rs. 5,500, and Nimar Rs. 4,760. In Buldana Rs. 3,202 were spent on continuing the Chunkheri-Pingli road which is now nearly completed and with a small further expenditure should be open for traffic by next December. Rs. 4,160 was spent on a part of the Wasali-Chunkheri road. Unfortunately a considerable sum was wasted here as the Divisional Officer at the time made one section unnecessarily elaborate, and on the next section abandoned the original alignment without due consideration, the consequence being that the construction is cut off from the following section by a reef of rock to pass which will entail very heavy expenditure on blasting. It has since been decided to complete the construction of this road by the agency of the Public Works Department. In Akola 144 miles on five ghat roads were constructed at a cost of Rs. 3,700 to the departmental funds in addition to a contribution of Rs. 1,000 from the District Board. The roads which were inspected by the Conservator were well laid out and constructed and will facilitate traffic both from the forests and for the general public In Nimar the new works consisted in making diversions and easing gradients on existing cart tracks in the forests. The old roads so called in Nimar are perhaps the worst in the Circle and even more money might advantageously be spent to open up the interior of the Chandgarh, Piplod and Kalibhit Ranges. Labour difficulties, however, are great and the programme has had to be cut down in order to avoid the wholesale desertion of forest villagers. The importation of labour sangs appears the obvious solution, but the climate of these forests is so poisonous to outsiders, for a considerable time after the rains, that such gangs cannot be permanently employed.
 - 55. In all divisions the difficulty of obtaining a supply of labour and its high cost when obtained is complained of; the only exception was Buldana where many coolies came from Khandesh seeking employment owing to the failure of the food-crops. In Betul it is hoped that with the completion of railway construction this difficulty will be lessened, but in Yeotmal it will become even more acute as railway construction is extending into the district.

In the Melghat the formation of the new reserves will necessitate a considerable amount of road construction in the near future and general alignments for some of the more urgently needed roads have already been decided on. Here again the labour difficulty in unhealthy forests with a thin Korku population will be pronounced and the work can only progress slowly.

Repairs to roads were heaviest in Melghat, Rs. 3,780 and Betul Rs. 2,923. In Amraoti Rs. 980 was paid by agreement as a contribution to the District Board for the upkeep of the Amraoti-Pohora road.

(b) BUILDINGS.

NORTHERN CIRCLE.

56. The following permanent buildings were entirely constructed during the year:—

| Range Officers' quarters | *** | 401 | I |
|--------------------------------|-----|-----|----|
| Range Assistants' quarters | | 100 | I |
| Forest Guards' nakas | *** | *** | 21 |
| Forest Guards' temporary nakas | ••• | ••• | 9 |
| Out-houses to Range quarters | ••• | •• | ľ |

Besides the above one Range Assistant's quarters was purchased in the Damoh Division for Rs. 225. Also the compound walls to one Range quarters, and one Range Assistant and Range Moharrirs' quarters in the Mandla Division were constructed for Rs 300.

The following temporary buildings were also constructed in the Mandla Division —

| Stables and out-houses | *** | ,,, | 3 |
|---------------------------------|---------|-----|---|
| Inspection huts | ••• | | 2 |
| Quarters for Range Moharrir and | orderiv | *** | I |

57. The following buildings that could not be completed last year were completed during the year:—

| Rest-houses | 44.0 | 111 | 2 |
|----------------------------|------|-----|---|
| Range Assistants' quarters | *** | ••• | 1 |
| Range Mohanirs' quarters | *** | ••• | 3 |
| Forest Guards' nakas | ••• | *** | 5 |
| Mahauts' quarters | ••• | 341 | I |
| Out-houses to rest-house | *** | • | 1 |

Besides these, additions to two rest-houses costing Rs. 378 were made.

58. The following buildings were partly constructed during the year:-

| Rest-houses | 141 | ••• | 3 |
|----------------------------|-----|-----|----|
| Range quarters | *** | 741 | 1 |
| Range Assistants' quarters | ** | | 3 |
| Forest Guard's nakas | | | 14 |

- 59. On the above work Rs. 15,293 were expended in all during the year.
- 60. An expenditure of Rs 6,445 was incurred on repairs to buildings including Rs. 31 expended on katcha huts in Hoshangabad. Besides, Rs. 294 were paid to malis and for dismantling of nakas, etc., in the Hoshangabad and Mandla Divisions.
 - 61. The total outlay on these works was Rs. 22,032.

SOUTHERN CIRCLE.

- 62. The expenditure on buildings during the year amounted to Rs. 32,317 as compared with Rs. 27,963 during 1911-12. Rs. 22,724 was spent on new works.
 - 63. The new office for the South Chanda Division was completed and occupied and the foundations of the new residential quarters for the Bilaspur Divisional Officer were laid during the year.

Rest-houses 64. The following rest-houses were completed during the year:—

Division. Name.

Bhandara ... Out-houses to Bheokhidki Rest-house.

Bilaspur ... Lamni Rest-house.

Nagpur-Wardha ... Nagalwari and Panjra Rest-houses with out-houses. Out-houses to Sylari Rest-

house.

Raiper ... Kitchen and out-houses to Borai Rest-

Balaghat ... Out-houses to new Rest-house at Supkhar was commenced

Subordinates' quarters.

65. The following were constructed or completed:—

Division \ame

Balaghat ... Range Assistants' quarters at Dhansua and
Batkari One additional room to Range
Moharirs' quarters at Baihar. b Forest
Guards' nakas

Bhandara Range Assistants' quarters at Kosumtondi and Digori Out-houses to Range quarters at Sangaihi. 8 Forest Guards' nakas.

Bilaspur Range Officers' quarters at Baloda.

North Chanda ... Range Assistants' quarters at Junona and Keljar. 4 Forest Guards' nakas

South Chanda .. Range Clerks' quarters at Kothari, Depot Jamadar's quarters at Ballarshah. 4 Forest

Guards' nakas.

Nagpur-Wardha ... Range Assistants' quarters at Bazargaon.
Out-houses to Range quarters at Umrer
Out-houses to Range Assistants' quarters at

Heora, r Forest Guards' naka.

Raiput ... Range quarters at Sihawa for South Sihawa Range Officer. 6 Forest Guards' nakas.

And quarters were commenced at the following places:-

Division. Name,

Balaghat ... Range Assistants' quarters at Supkhar. 1
Forest Guards' nake

Bhandara ... 4 Forest Guards' nakas.

Bilaspur ... Range Assistants' quarters at Lamni and Gindola Range Officers' quarters at Bilaigarh.

North Chanda ... Range Assistants' quarters at Warora and Rajoli.

South Chanda ... 5 Forest Guards' nakas Raipur ... 2 Forest Guards' nakas.

66. Rupees 1,198 were spent on the construction of petty buildings in connection with the Forest School at Balaghat. A sum of Rs 40,000 has been placed at the disposal of the Public Works Department for extensions to the school buildings to provide a new school room, hospital and quarters for Assistant Instructor, Curator, Sub-Assistant Surgeon and 25 students.

A sum of Rs. 9,020 has been sanctioned for show cases, etc., for the Museum.

BERAR CIRCLE.

67. The expenditure on buildings was Rs. 20,476 on new works and Rs. 10,952 on repairs, as compared with Rs. 14,078 and Rs. 10,485, respectively, in the previous year.

68. Under new works the Mehdari rest-house with its out-houses in Amraoti Division was completed for Rs 441. At Singad in Ycotmal Division a rest-house partly built by the Public Works Department was taken over and its construction continued at a cost of Rs 2,711.

Of Subordinates' quarters the following were completed :-

Melghat. - Six guards' quarters and 28 temporary huts.

Ami auti - Se en guards' quarters, two out-houses to Range Officers' quarters and one temporary but.

Bulcana-One temporary but.

Yeat mat -- One Panie Officer's, two Range Assistants', four guards' quarters and seven temporary buts.

Ak la -One Range Officer's quarters,

A'imai,—I wo Range Officers,' one Range Assistants, two guards' quarters, two out-houses to Range Officers' quarters and 13 temporary huts.

Betul.—One Range Assistant's, one guards' quarters, four temporary huts.

Total cost Rs. 12,464, while Rs 3,845 was spent on quarters uncompleted at the close of the year.

69. Under repairs, Rs 1,577 were spent on Head-quarters houses; Rs. 2,875 on 42 Rest-houses, Rs 5,277 on 458 Subordinates' quarters and Rs. 1,223 on 130 other buildings.

The housing of subordinates is still in a very backward state in some Divisions. A satisfactory standard plan for Range Officers' quarters has been adopted and an experiment to decide on a suitable plan for Range Assistants is in progress, but the housing of the lower subordinates is a difficult question. The beat guards deserve to be provided with proper accommodation especially in unhealthy tracts, and such provision would possibly assist recruitment, but it has been found very difficult to design a plan giving sufficient accommodation of substantial structure that is not very expensive.

(c) MISCELLANEOUS WORKS.

NORTHERN CIRCLE,

70. Four wells were constructed during the year at a total cost of Rs. 1,154, vis.: one in Saugor (Rs. 579), two in Hoshangabad (Rs. 421), and one in Seoni (Rs. 154). Three wells left incomplete last year were completed during the year for Rs. 131. Rs. 2 were in addition required for a well already shown as completed in Mandla. 9 wells were left incomplete at the close of the year, the amount spent on them being Rs. 950, out of which amount, however, Rs. 50 were eventually recovered after the close of the year in the Seoni Division as the work was not approved of.

In addition to the above, Rs. 55 were paid to a contractor in Mandla in settlement of his claims for a well.

71. For the last section of the useful Patesur Tank in the Seoni Division Rs. 1,152 were expended which completes the work. The site selected for the Kahani Tank in the same Division and referred to in the last Report was, or, further consideration and by inspection of the site, rejected as unsuitable and of doubtful utility.

Thus Rs. 3,444 were spent on new works under this head in addition to which Rs. 900 were disbursed as the pay and travelling allowance of the Public Works Department Overseer and his establishment deputed on tank works.

- 72. Under repairs Rs 1,911 were expended. The details of work are as follows:—
 - Ten tanks cost Rs. 443); 65 wells (Rs. 807); 12 Jhirias (Rs. 44); clearing, fencing, etc., of compounds of Rest-houses, Subordinates' quarters, Rest (amps, &c Rs. 617)
 - 73. On the whole Rs 6,255 were spent under this head
- 71 Of the tails of the Sango Dickion referred to in the last Report, the leaks of the Chheola Balch task rather increased although efforts were anade to stop them. The tank nevertheless holds water throughout the year. The Padrai touk continues to leak as much as every of thas practically dry by January. As for Netro tank some droins were ling to increase its catchment area, but the realth of yet to be varened. The next roat of the Piparkheri Tank project was not completed by the Public World Department Overseer.
- 75 The total outlay under Head A-VII during the year under report compares as below with that for the preceding year —

| Vest | A VII a | \ .'-VII-6 | A-VII-c | Total |
|---------|---------|------------|---------|--------|
| | 2 | 3 | 4 | 5 |
| | Rs | Rs. | Rs. | Rs. |
| tgf1 12 | 22 151 | 22,108 | 5,352 | 49,611 |
| 1912-13 | 26 986 | 22,032 | 6,255 | 55;273 |

SOUTHERN CIRCLE

- 76. The expenditure under this held was Rs 15,323 as compared with Rs. 16,370 spent last year. Of this, Rs. 9,130 was spent on new work and Rs. 6,193 on repairs, etc.
- 77. Rs. 3,703 were spent on new work and Rs. 2,430 on repairs. The bund of the Nagjhirri tank (Bhandara Division) noted in last year's Annual Report burst owing to its not being built sufficiently high above the level of the waste-weir. This was repaired and the tank completed during the year at a cost of Rs. 3,461, the total expenditure amounting to Rs. 6,440. The bund of the tank was in order at time of writing this report. No new tanks were commenced during the year, but programmes for the construction of tanks in waterless areas were called for. As such areas are usually far from human habitations, very little is known about them or their suitability from the point of view of tank construction. In the Chanda and Balaghat districts tanks are mainly constructed for irrigation purposes, the forests being on the whole very well provided with natural pools suitable for watering cattle even in the driest weather. It is however improbable that few if any tanks are required in this Circle for watering cattle. Some three-quarters of the forests are open to fairly heavy grazing throughout the rainy season, so that comparatively little grass exists after the close of the monsoon except in the temporarily closed coupes and tanks made in such areas would cease to be of value when these coupes in their turn were thrown open to grazing during the rainy season.
 - 78. Rs. 3,637 were spent on new work and Rs. 988 on repairs to wells.

New wells were constructed during, the year as follows:-

5 in Balaghat, 2 Bilaspur, 1 North Chanda, 10 South Chanda, 3 Nagpur-Wardha, and 2 Raipur.

DERAR CIRCLE

- 79. The expenditure under A-VII-c was Rs 14,024 as compared with Rs 24,756 in 1911-12
- 80. In Nimar Rs. 2,385 were spent on completing the Karwani Tank and in Betul Rs 200 on repairs to the waste-weir channel of Ladi Tank. 29 new wells were constructed or completed at a cost of Rs. 5,715, while Rs. 1,435 was spent on 9 wells still incomplete. In Akola 3 troughs for watering cattle at wells were built for Rs 160 Rs. 236 was spent on trial pits for 5 wells. In Nimar, at the instance of the Revenue authorities, 19 temporary bunds were thrown across values to hold up water in anticipation of a greatly increased demand for grazing during the hot weather. One similar bund was made in Yeotmal. The cost was Rs. 680 and Rs. 30, respectively.
- 81. Repairs to 92 wells and 17 jhiras cost Rs. 2,117. Compounds of 104 huildings were cleaned at a cost of Rs. 1,173, and 23 were fenced for Rs 213. The Overseer on the Kharmani Tank cost Rs 65 and other miscellaneous charges were Rs 215.

The following statement displays the work done in constructing and repairing wells —

| Division | | | Wells completed | | Wells in piogiess, | | Wellis and thirds deepened and repaired. | |
|----------|-------|---|-----------------|-------|--------------------|-------|--|-------|
| | | | No | Cost | No | Cost | No | Cost. |
| | ł. | | 2 | 3 | 4 | 5 | 6 | 7 |
| | | } | | Rs | | Rs | | Rs |
| Meighat | | | 01 | 175 | r | 13 | 25 | 45 |
| Amraoti | | | ••• | *** | | | 10 | 190 |
| buldana | | } | 2 | 607 | 2 | 514 | 15 | 442 |
| Yeotmal | | [| 7 | 2,184 | 4 | 780 | 12 | 205 |
| Akola | | | 3 | 1,165 | | | 14 | 175 |
| Nımar | | | 4 | 1,194 | 1 | 48 | 29 | 942 |
| Betul | | | 3 | 390 | 1 | 80 | 4 | 118 |
| | Total | [| 20 | 5,715 | 9 | 1,435 | 109 | 2,117 |

SECTION 3.-PROTECTION OF FORESTS (FORM No. 13).

(a) GENERAL PROTECTION.

NORTHERN CIRCLE.

82. The Forest offences of the year are compared below with those of the preceding year:—

| | | Average of three years. | verage of ree years. 1911-12. | | Increase or decrease. | |
|---|----------------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|--|
| i | | 2 | 3 | 4 | 5 | |
| 1. Injury by fire 2. Unauthorized felling 3. Unauthorized grazing 4. Other offences | # 541 ** | 273 1,611 1,084 53 | 217 1,548 975 61 | 136 1,810 1,255 76 | -81 + 262 + 280 + 15 | |
| | Total | 2,921 | 2,801 | 3,277 | +476 | |

83. The total number of cases for the year under report were thus in excess of those for the preceding year, as also of the average for the preceding three years by 476 and 356, respectively.

Under "Injury by fire" there appears a decrease of 81 cases as compared with the preceding year and of 137 as compared with the average. There is an appreciable increase in the Mandla Division only and a slight increase in Jubbulpore Narsinghpur, all the other Divisions showing decreases. The increase in Mandla is attributed to the extension of the fire protection operations to the Khannat Forests and the decrease in other cases to the early and frequent falls of rain.

Under "Unauthorized felling" the increase is noticeable in all the Divisions, except Saugor, and is ascribed to better vigilance on the part of the staff in the matter of detecting offences. In Mandla the Divisional Forest Officer attributes the increase of cases to more complete reporting rather than to any actual increase of cases during the year.

Under "Unauthorized grazing" only two Divisions, viz, Jubbulpore-Narsinghpur (13) and Seoni (19) show some decrease which is attributed to no action having been taken in the former Division against offenders in the Dhanwahi Range (of the old Jubbulpore Division) as the people were unaccustomed to the new rules, and in the Seoni Division to suspending all action against offenders until the end of August 1912, by which time they were permitted to take out licenses under the new rules. All the other Divisions show an increase in cases under this head, prominently the Damoh (114) and Chhindwara (109) Divisions and in a lesser degree Saugor (67), attributable to the tendency of the people to evade the new rules

Under "Other offences" the increase is restricted to the Mandla, Saugor, Seoni and Chhindwara Divisions, each showing only a slight difference and in general attributed to illicit cultivation and shooting in the Reserved Forests.

84. The number of cases decided by courts was 83 against 93 in the preceding year, and the percentage of convictions was 76 against 77.

The punishments awarded by Courts are reported to be adequate in all Divisions except Chhindwara, where the Divisional Forest Officer does not, in general, seem to be satisfied with the attitude of the Magistrates who, he says, give expression to their own opinions rather than administer the Forest Act, as it stands, while on the other hand the Forest staff are not sufficiently versed in the law. The District Magistrate has, however, taken action in the matter. The same Divisional Forest Officer brings to notice another difficulty, vis., that of the situation of the three Ranges in respect of the Tahsil jurisdictions, each of them lying partly in one and partly in another Tahsil—a drawback which makes it almost impossible for a Range Officer to attend to two different cases in two different Tahsils at nearly the same time, the head-quarters of which are 34 miles apart and 40 to 44 miles from any Range head-quarters. The above fact added to the delays in the Court cases arising from different causes seriously affects the more legitimate work of the Forest staff. The District Magistrate, it is further stated, has, however, issued orders to group cases and this may give some relief.

- 85. The number of cases compounded by officers authorized to do so under the provisions of the Forest Act was 2,851 against 2,542 the average of the preceding three years; and the number of persons involved was 7,693 against 7,042. The average amount of compensation taken was Rs. 3-1-4 against Rs. 2 12-7 per head and Rs. 8-5-1 against Rs. 6-4-1 per case.
- 86. There were 2c1 cases undetected—80 under "Injury by fire", 92 under "Illicit felling" and 29 under "Unauthorized grazing" against an average of 277 of the previous three years.

SOUTHERN CIRCLE

87. The forest offences of the year compare with those of preceding years as follows:

| | | | - | 1 | ł | l | |
|-------------|--|--------------------------|-----------|--------------------------------------|-----------------------------------|---------------------|---------------------------------|
| | Nature of oftence | | (1911-10 | Casus of the year | Avera e of pist thick years | Increase or | Percentage of total cares |
| | | nagan pengunan Samiliyan | 3 | 3 | 4 | 5 | 6 |
| 3. 4 | Injury by hr Unauthorized felling \c Unauthorized grizing Other offences | Total | 1 339 | 77 1 3 2 1,1 9 35 2,593 | 135 1,330 856 50 23°0 | 51 8 203 1 | 4 1 1 |

Except in the Nagpur-Wardha Division there has been an increase in all Divisions of cases of unauthorized grazing which is generally attributed to the greater vigilance of the forest staff. The decrease in the number of cases of injury by fire is due to the greater precautions taken to prevent fire and partly to early rain in some Divisions. In Bilaspur the decrease in cases of deliberate incendiarism is reported to reflect great credit on the tact of the Ranger of the Pantora Range. There were 105 new cases of the year taken into Court compared with 98 in 1911-12 of which, including 9 cases pending at the commencement of the year, 102 cases were disposed of, leaving a balance of 12 cases pending at the close of the year. In 77 out of 102 cases convictions were obtained, there being 25 acquittals during the year compared with 30 during 1911-12. Over half the acquittals occurred in the Raipur Division whereas in the previous year the Nagpur-Wardha Division headed the list. The incidence is somewhat remarkable, some individual Divisional Forest Officers do not appear to use sufficient discretion before sending cases up to Court as to whether the evidence is good enough to ensure conviction or not. Sentences appear on the whole to have been adequate.

88 There were 2,384 cases during the year in which the offenders agreed to compound for the damage done by them to the forests against 2,262 cases in 1911-12, 2,075 in 1910-11, the number of persons involved being 8,178.

The average amount accepted was Rs. 8-2-0 per case and Rs. 2-7-0 per person against an average in the last three years of Rs 6-11-11 per case and Rs 2-1-10 per person. Compensation varied from Rs 1-3-7 per head in North Chanda to Rs. 3-15-9 per head in Balaghat. The incidence in Nagpur-Wardha having fallen from Rs. 4-6-0 to Rs. 2-0-0 per head, this again is undoubtedly due to the individual idiosyncrasy of the officer in charge.

BERAR CIRCLE

89. The Forest offences of the year and the number of cattle impounded are compared with previous figures in the following statement —

| Nuture of offence. | | Average of three years | 1911-12 | 1912-13 | Percentage of total cases, |
|---|----|------------------------|-----------------------------|-----------------------------|----------------------------|
| X | | 2 | 3 | 4 | 5 |
| Injury to for st by fire Unauthorized felling, or removals of produce Unauthorized grazing Other offences | ** | | 47 1 202 2,168 220 | 37 1,595 2,676 485 | - 1 33 55 10 |
| Total | | 3,702 | 3,637 | 4,793 | *** |
| Number of cattle impounded | 44 | 4,621 | 4.743 | 6,035 | FAR |

90. The number of cases dealt with rose by 1,156 or 32 per cent as compared with the previous year, the principal increases being 39 in Melghat, 452 in Buldana, 576 in Yeotmal and 78 in Nimar. In the Melghat restrictions are being introduced on the removal of produce from the newly constituted A Class reserves which must necessarily result in the increase of offences of unauthorized removals of produce. The increase, however, from 52 to 67 is small and show, that the restrictions have not been enforced with undue 52 verity on the Korku population. With the constitution of the new Reserves as A Class a beginning has also been made to treat cases of grazing without licenses after 31st July as forest offences instead of as formerly merely charging double dues under the C Class grazing rules. In Buldana the large increase of 216 under unauthorized grazing is due to the scarcity of fodder which led the people to graze their cattle in closed ateas with the hope of escaping detection. Of unauthorized removals of produce the increase of 65 was due to the same shortage of fodder which tempted people to thefts. The same cause led to the increase of 254 cases of illicit grazing in Yeotmal, while the rise of 270 cases of unauthorized removals of produce is attributed to greater strictness in enforcing the restrictions on the felling of teak in C Class forests, which is very necessary to prevent the complete destruction of teak in these areas. In Nimar the rise is due to greater strictness in dealing with unauthorized fellings

The decrease in the number of fire cases is attributable to the scanty growth of grass owing to short rainfall and the heavy grazing in all forests which greatly reduced the quantities of inflammable material.

The increase in the number of other offences was found mainly in Buldana and Yeotmal where the checking of boundaries in preparation for survey operations brought to light a very large number of petty encroachments on the forests.

- 91. The total number of cases compounded was 4,586, involving 11,931 persons as compared with 3,546 cases and 9,221 persons in the previous year. The total compensation accepted was Rs. 27,607-14-1, cr Rs. 6-0-4 per case and Rs. 2-5-0 per person as compared with Rs 5-2-4 per case and Rs. 1-15-8 per person. A large number of the cases are very petty, but there is no doubt that the rate of compensation taken might well be stiffened especially in Yeotmal where offences are very numerous, and the people not materially poorer than in the rest of Berar, while the rate of compensation accepted there is only about half of the average for the whole Circle
- 92. Of cases taken into Court, 5 were pending from the previous year, and there were 70 new cases. Of 72 cases completed convictions were obtained in 62 or 86 per cent and 3 remained pending at the close of the year.
- All Divisional Officers report that the sentences imposed by Magistrates were adequate. The most important case prosecuted was that of a timber contractor in Nimar who felled unmarked trees in his coupe and was sentenced to 6 months rigorous imprisonment. This conviction and punishment has contributed largely to a serious decrease in the amounts bid for coupes in the current year. There is no doubt that it will have a salutary effect on the working of lessees for some time to come.
- 93. Rules for the regulation of timber and fuel in transit in Yeotmal District were prepared with the concurrence of the Commissioner, Berar, and notified shortly after the close of the year. They should lessen the possibility for illicit removals which have been a subject of complaint from that district.

(b) PROTECTION FROM FIRE (FORM NO. 14). NORTHERN CIRCLE.

94. The area attempted to be protected during the year was 1,971,486 acres or 3,080 square miles as compared with 1,753,272 acres or 2,740 square miles of the preceding year. The difference (218,214 acres) is due to more areas having been brought under protection in all Divisions (except only in Saugor where the area was reduced by 1,922 acres under the new scheme). The chief increase was in Mandla where protection was extended to the Khannat Forests (area 68,629 acres).

- 95. Of the area under protection during the year 1,922,971 acres or 3,005 square miles were successfully protected as against 1,692,786 acres or 2,645 square miles during the preceding year. The percentage of failure thus fell from 3'45 to 2'46 and the cost from Rs. 11-7-5 to Rs. 10-15-2 per square mile. The decrease in the area burnt was conspicuously noticeable in the Saugor, Hoshangabad and Chhindwara Divisions though Sconi also contributed to it in a slight measure. There were, on the other hand, increases in the Mandla (North and South), Jubbulpore-Narsinghpur and Damoh Divisions. In the last the increase was considerable. The net result for the Circle as a whole was, however, satisfactory as the total area burnt was less than that in the preceding year by nearly 12,000 acres. In the Mandla Division, out of the area of 3,870 acres burnt (by 11 fires) 3,441 acres were in the Khanat Forest (just brought under protection). But for this the result would certainly have been a decrease for the Division as compared with the preceding year. In the Jubbulpore-Narsinghpur Division the increase is assigned to two big fires occurring in the Dhanwahi and Khairi Ranges, the culprits in which have been ordered to be prosecuted. The greater area burnt in the Damoh Division also appears to be due to the protective measures having been extended during the year to a very large area. The satisfactory results in Sauger, Hoshangabad and Chhindwara Divisions were to some degree due to the favourable conditions of the weather, but more particularly to greater vigilance on the part of the protective staff and in the last named Division, also to the enforcement of their duty on the Kotwars and Mukaddams in connection with the fire protection. It may be noted here that not a single fire occurred in the Bori, Sohagpur, Hoshangabad and Magardha Ranges of the Hoshangabad Division, Khairi and Jubbulpore Ranges of the Jubbulpore Narsinghpur Division and Nerbudda Range of the Seoni Division, and the Range Officers concerned deserve their share of credit for the successful protection of their respective charges. The only two fires (burning in all 149 acres) in the Hoshangabad Division were due to causes unknown.
- 96. The expenditure incurred on special protection during the year amounted to Rs. 33,028 as against 30,047 in the preceding year. The figure is inclusive of Rs. 94 spent in the Mandla Division for clearing fire lines and maintaining watchers along the portion of the Lormi Range (Balaghat Division, Southern Circle) bordering the unprotected forests in the Mandla Division.
- 97. The largest number of fires occurred in the Saugor Division and the smallest in Hoshangabad.
- 98. The total number of fires during the year was 98 and the area burnt 48,515 acres or 76 square miles against 128 fires and 60,486 acres or 95 square miles burnt during the preceding year. The lowest percentage of failure was of in the Hoshangabad Division and the highest 9.88 in the Damoh Division.
- 99. Form No. 15 gives the classification of fires according to the several Divisions of the Circle. It will be seen that out of the total of 98 fires no less than 44 covering an area of 20,835 (out of the total of 48,515) acres were from causes unknown, and this large proportion is contributed specially by Saugor, Damoh and Chhindwara Divisions. In the last named Division the area burnt is, however, comparatively very small.
- 100. The area burnt from cause A (carelessness in burning fire line) is conspicuously large in the Damoh Division in which as much as 9,565 acres were burnt in two fires alone. In both cases the subordinates at fault have been adequately dealt with.
- 101. There were six fire cases prosecuted (2 in Mandla, and 4 in Chindwara); in three of these convictions were obtained,—two resulted in acquittal and one was pending at the close of the year.
- 102. Of the fires in unprotected forests, Jubbulpore-Narsinghpur reports 28, Damoh 10 and Seoni 22, covering in all an area of 18 square miles.

- 103 Of the 98 fires in the specially protected areas, 31 were inspected by the Divisional Forest Officers, one by an Assistant Conservator and one by an Extra-Assistant Conservator. The percentage inspected was greater than that of the preceding year.
- 104. The season on the whole was not unfavourable to successful fire protection though the work of burning fire lines was in some measure impeded.

SOUTHERN CIRCLE.

- 105. The area in which fire protection was attempted in the Southern Circle during the year was 3,098,263 acres as compared with 2,968,095 attempted in 1911-12 This area forms 69 per cent of the total area of A Class forests, and of this 98 39 per cent was successfully protected as compared with 98 44 in the The greater part of the remainder were departmentally burnt early previous year. in the year, or so he wily grazed down that there was no material to burn. 31,084 acres out of 49,945 acres of the total area burnt were in the Raipur Division. The largest fires occurred in this Division, most of which starting in the South of the District spread to the forest from accidental fires in private jungles. In Raipur five fires burnt nearly 41 square miles of forest, one fire alone which spread from the Madras border being accountable for 10 square miles. It appears hopeless to protect the Sihawa Ranges from fire with the present methods in vogue, the old fire registers showing frequent fires in these forests every year or so and in future the early hurning of the more inflammable savannahs will The fire protective measures in Bilaspur were more successful, be resorted to. and this is no doubt partly due to the early burning of some of the large open maidans of the East and West Lormi Ranges. In Balaghat two conflagrations burnt two and five square miles respectively, the largest fire being attributed to malice propense. The season was a good one for fire protection on the whole owing to a comparatively early rainy season and all other Divisions show less than I per cent of area burnt during the year. The writer toured through part of the Moharli Range in the North Chanda Division during May and was struck with the finality obtained, by successful fire protection, the greater part of the area owing to the dense cover of trees and bamboos containing so little inflammable grass that a fire would now do comparatively little damage even in the hot weather.
- 105. The total cost of fire protection in the Circle in the area in which protection was attempted amounted to Rs 48,054 or Rs. 9-14-10 per mile This compares with Rs. 45,771 or Rs. 10 per mile spent in 1911-12. The highest cost was in North Chanda where it amounted to Rs. 15-7-0 per square mile. In the two Chanda Divisions the intensity of fire portection is far too high under present conditions and it should be possible to greatly reduce the cost of these operations in future.
- 107. The statement in Form No. 15 shows the causes of fires. There were 7 cases taken into Court.

BERAR CIRCLE.

- 108. The area attempted to be protected was 2,327,231 acres or 3,636 square miles. The decrease of 136 square miles as compared with the area attempted in the previous area is due to the re-arrangement of felling series in the Dabka and Sawalmendha Ranges in Betul where a considerable area has been decided to be unworkable and therefore removed from protection, and to considerable areas in Nimar being given over to early burning instead of systematic protection.
- 109. The area burnt amounted to only 18,316 acres or 29 square miles, being 0.79 per cent only of the area attempted. The results are a great contrast to those of previous years. They are due principally to the conditions of the season which were favourable to success for, though some showers in January and February delayed the final burning of the lines to some extent, yet fairly heavy and general rain fell in the latter part of May thus shortening the season of danger and the heat and drought were neither so intense nor so prolonged as in recent seasons. The scanty growth of grass and the great demand for grazing

also diminished the risks of fire To the policy of burning early some areas where systematic protection could not be carried out must also be attributed some of the success in areas where protection was concentrated. The results varied from 0.02 per cent of failures in Akola to 16 per cent in Nimar.

owing to the abandonment of the areas referred to, while the cost per square mile attempted fell from Rs 10-4-9 to Rs. 9-4-3 per square mile, this being due to the increased ease of line burning. On many lines it was reported that there was no grass to burn owing to the heavy grazing.

The cost of protection per square mile varied from Rs. 6-4-9 in Yeotmal to Rs. 18-0-10 in Amraoti. In this last Division the cost of protection is always high owing to the small area of the Reserves, but it should be possible to reduce it to some extent. In Buldana owing to the absence of inflammable material on the lines owing to heavy grazing the cost of protection fell from Rs 14-13-4 to Rs. 7-11-6, while the percentage of failures was only 0.9 per cent.

- 111. Form No. 15 details the origin and causes of fires.
- 112. There were only 31 fires as compared with 61 in the previous year, and there was a decrease under every cause. The catelessness of workmen, purchasers and travellers caused 12 fires as against 11 in the previous year, but the proportion from this cause is very high. No fire could be attributed to deliberate incendiarism. Only one fire in Nimar was caused by sparks from a locomotive as compared with 4 in the previous year. Though the conditions were favourable to line burning yet it is satisfactory to notice that only 7 fires originated from catelessness or accidents in this respect as compared with 22 in 1911-1912. In Betul where 3 fires from this cause burnt 2,06, acres and Buldana where 2 fires burnt 503 acres, it was found that the staff had not taken sufficient precautions and the persons at fault were punished departmentally. In Melghat a fire from this cause was due to a sudden change in the direction of the wind.

(c) PROTECTION FROM CATTLE (FORMS 16 AND 17).

NORTHERN CIRCLE

- 113. Form No. 16 shows the details of areas closed and open to grazing during the year
- 114. The area entirely closed to grazing throughout the year was 971 square miles or 13.24 per cent of the total Forest area, while the area closed for part of the year was 50 square miles or 68 per cent of the total Forest area.
- The area open to all animals (including browsers) was 4,905 square miles or 66 72 per cent of the total Forest area. Thus 86'18 per cent of the total area of the forests was open to the grazing of horned animals throughout the year and '68 per cent was similarly open for part of the year, while 66'72 per cent was open to browsers throughout the year.
- 116. The number of cattle impounded during the year was 4,311 as against 4,096 of the preceding year.

SOUTHERN CIRCLE.

the year of 153 square miles or 3 per cent over the areas open in 1911-12. The area opened to sheep and goats was reduced by 96 square miles and the area open to sheep by 70 square miles during the year. There were practically no A Class forests open to browsing except in the forests of the Naggur-Wardha Division which are now permanently closed to all goats and sheep. In the North Chanda Division it is possible that the extension of reservation of areas (grass birs) for fodder will still further lessen the areas open to browsing. The increase in the area opened to grazing occurred mainly in the Nagpur-Wardha Division and was due to the opening of the Pench Ranges to grazing to relieve the incidence of grazing in other blocks where it was too heavy. There was however a decrease in the

number of cattle actually grazed. Light grazing is held to be good for regeneration as it keeps down the heavy growth of grass which tends to choke freshly germinated seedlings which spring up during the rainy season and undoubtedly lessens if it does not altogether obviate the damage done by accidental fires in the hot weather. Grazing is usually confined to the rainy season while the crops under cultivation are on the ground. After the rainy season grass tends to lose its nutritive power and cattle in the black soil country are fed on dry stalks of millet (kurbi). Light grazing is consequently more beneficial than harmful except in freshly coppiced areas. The reduction in the areas opened to browsing during the year occurred mainly in the Sironcha Range, South Chanda, and the 44 square miles of A class forest shown in column 6 of the form last year in the Raipur Division was apparently entered by mistake. Of the area 1,505 square miles closed to grazing 965 square miles represents areas of coupes temporarily closed to grazing after felling.

118. The number of cattle impounded during the year was 3,384 against 4,691 of the preceding year.

BERAR CIRCLE.

No. 16. In Berar proper the area closed to all animals for the whole year was 380 square miles or 11'2 per cent; the area closed to browsers was 1,437 square miles or 42'5 per cent, and the area open to all animals for the whole year was 1,515 square miles or 44'8 per cent.

In Nimar and Betul the area closed to all animals throughout the year was 256 square miles or 8.9 per cent; closed to browsers 2,588 square miles or 90.02 per cent; closed to all animals for part of the year 23 square miles or 0.8 per cent; and open to all animals throughout the year 8 square miles or 0.3 per cent. The last figure includes the small remaining B-I. area in Betul.

It was only in Nimar that it was found necessary to open closed coupes for part of the year in order to save the cattle. In Berar the area closed to all grazing rose by 41 square miles owing to the closure of coupes in an increased number of felling series under schemes of working. In Nimar and Betul the area so closed decreased from 481 square miles in 1911-12 as it was judged advantageous to keep coupes closed for five years only after felling instead of for 10 years as formerly prescribed.

120. The numbers of cattle that grazed in the forests during the past two years are compared in the following table:—

| Year. | | Buffaloes. | Cows and bullocks. | Sheep and goats. | Other animals. |
|-------------------------|-----|------------|--------------------|------------------|----------------|
| I | | 2 | 3 | 4 | s |
| Armening and the second | | | Berar Division, | | |
| 1912-13 | | 166,543 | 10,93,875 | 491,794 | 3,478 |
| 1911-12 | | 154,348 | 10,94,140 | 416,858 | 3,544 |
| | | | Nimar and Betul. | | |
| 1912-13 | | 58,530 | 2,76,736 | 2,311 | 354 |
| 1911-12 | *** | 58,425 | 272,799 | 1,632 | 482 |

The figures in the corresponding statement of last year were incorrect.

121. In Berar the numbers of cows and bullocks shew a slight fall, owing to the decrease of those grazed free or at privileged rates. This decrease is but nominal as formerly free grazing passes in C Class were issued for a number of

plough cattle which are stall-fed and never used the forests. This has been dropped. The number grazed at full rates shew an increase of 16,761, and the actual increase in numbers must be about this figure.

The most serious point in Berar is the great increase in the numbers of sheep. In Yeotmal it is said that many of these animals which usually graze in Izara villages were sent last year to C Class forests. These large flocks not only consume much grass which is necessary for agricultural cattle but defile the grazing so that cattle will hardly touch it. Provision is being made in the grazing rules to retain power to regulate the admission of sheep.

In Yeotmal and Akola considerable mortality is reported among the cattle who were greatly reduced by the prolonged drought and semi-starvation in 1912 and were incapable of digesting the green grass when it appeared at length towards the end of July.

In Buldana it is reported that the people are beginning to send their cattle in larger numbers to the cattle camps in the large forest blocks though they are not yet very popular.

In Nimar as great water and fodder scarcity throughout the District was anticipated, a number of cattle camps were organized in the larger forest blocks and water was provided by bunding up nalas early in the season. Arrangements were made to accommodate about 1½ lakhs of cattle but in the end a comparatively small number came to the camps. The water-supply held out better than expected, while the people preferred to keep their cattle to graze on wheat-stubbles to sending them into the forests where they say that the dry grass in the hot weather is deleterious to the animals.

122. The total number of cattle impounded was 6,035 as compared with 4,743 in 1911-12. Owing to semi-starvation the animals were more inclined to stray from their herdsmen.

(d) PROTECTION AGAINST INJURIES FROM NATURAL CAUSES. NORTHERN CIRCLE.

- 123. Frost.—There was practically no frost during the year. Slight damage was nevertheless reported to have been caused to saplings in some of the low lying places bordering the rivers in Mandla, Seoni and Chhindwara and in pronounced frost holes in the Hoshangabad Division.
- Wind.—Except in Seoni and Chhindwara where the severe storm was accompanied by hailstones in February, no damage by wind is reported. In the former Division considerable damage is reported to have been done to foliage of trees in the southern portion, and several trees were uprooted in the Ganginala Range. In the latter (Chhindwara Division), the hail-stones were very large (said to be of the size of cricket balls) and did considerable damage to the lac and mohwa crops, besides breaking the branches, bursting the bark, stripping every leaf from trees lying in its course. In parts of Mandla too the crop of mohwa and achar is said to have been damaged by hail in February. The constant cloudy weather, moreover, damaged the mohwa flower and seed crop and the harra crop a good deal.
- 125. Insects.—Considerable damage was done by the teak leaf defoliator in the higher parts of the Chhindwara Division, the three Northern Ranges of Seoni, South-Eastern and South-Western Ranges of Damoh and all the Ranges (except Murwara) of the Jubbulpore-Narsinghpur Division; entire defoliation occurred in the Mandla Range of the North Mandla Division; and some damage in the Hoshangabad Division is also reported.

Weevil beetles damaged to some extent the young bamboo shoots in Hoshangabad, but it continued to cause considerable damage in the Garhakota Reserve of the Saugor Division. The Saugor Divisional Forest Officer, however, says that its life history is now thoroughly understood and steps were taken to reduce the damage caused by it by collecting and destroying as many of the mature beetles as could be found in the months of July to September.

In the Mandla Division a certain number of Sal trees were killed by the borer (*Hyplo cerambix Spinicornus*) but the damage was less than that in the preceding year. A few infected trees were felled and barked. Mr. Stebbing's notes on the life history of this insect points to the probability of another serious attack in 1913-14.

Ants did some damage to the lac crop in the Chhindwara Division.

- 126. Loranthus --41,39i trees were relieved of this parasite in the Jubbul-pore-Narsinghpur, Damoh and Sconi Divisions at a cost of Rs 413 Besides, 2,971 trees were freed without cost in Jubbulpor-Naisinghpur and Chhindwara Divisions.
 - 127. Drought. No damage is reported from any Division.
- 128. Wild anim ils.—Considerable damage is reported to have been done in Jubbulpore Division and portion of Amarwara Range in the Chhindwara Division to young coppice shoots of Aonla, Dhawra Ghont and Salai by wild animals, especially sambhar and chital. In the Garhakota Reserve of the Saugor Division monkeys and pigs continue to destroy the new bamboo shoots, and although a large number of pigs including the litters were destroyed by Forest guards, yet they do not appear to be much reduced in numbers. In the Damoh Division too a good deal of damage is reported to have been caused by monkeys to young saplings and coppice shoots in recently felled areas.
- Guards without cost, but in addition Rs. 508 were spent in Mandla, Jubbulpore-Narsinghpur, Hoshangabad, Seoni and Chhindwara Divisions.

SOUTHERN CIRCLE,

- 130. Creepers—The principal pest in the Southern Circle is the Ironi creeper (Zyziphus) which is still rampant in the Chanda, Nagpur and Bhandara Districts. Mere cutting has no effect in eradicating it owing to its coppicing powers. Splitting the stem lengthwise into four sections after cutting in the rains or early in the cold weather appears to have an effect somewhat analogous to girdling, as split portions throw out shoots which dry up in the hot weather and so exhaust the energy of the plant. Cattle are said to eat the young coppice shoots of this creeper, so that light grazing would appear to be advantageous after the creeper has been cut over. The cutting of climbers was continued on the usual small scale during the year, the area being 31,348 acres at a cost of Rs. 1,861 against 13,911 acres and Rs. 2,456 in the preceding year.
- 131 Climate.—No very remarkable damage was noted under frost, hailstorm or drought. Frost occurs in Balaghat and an attempt is being made to cultivate Chir pine which grows well on the uplands and is very resistant as a nurse to Sal trees. Some damage was reported in Bhandara from wind and North Chanda from hail.
- 132. Animals.—The damage done by borers and defoliators during the year appears to have been less than usual. Deer are reported to have done considerable damage to coppice shoots in the North Chanda Division where they have been preserved in sanctuaries and this is partly due no doubt to the absence of grass in the high forest.

BERAR CIRCLE.

- 133. Frost.—The season was mild. Some slight damage occurred in the Melghat, but the results of the severe frost of 1911 are still apparent, es ecially in the Melghat and among the babul in Bhongaon Reserve.
 - 134. Wind.—No damage is reported.

- 135 Drough t.—The repeated seasons of short rainfall and prolonged hot weather have had very serious results on old trees, mostly saj and teak and dhavea and especially in Nimar Seedling reproduction failed almost entirely and coppice shoots of teak except in a few very favourable localities were very short and weakly.
- 136. Insects.—II blea puera again committed extensive ravages on the teak in Betul and in the north-eastern parts of the Melghat, being apparently favoured by the dry eason. The dam ge done to babul by the Calosterna spinator in Bhongson has apparently been arrested by the thinning and pruning of the young plants begun as described last year. When inspected by the Conservator the percentage of plants affected was found to be decidedly less than in the untreated area while the plants appeared more vigorous and healthy. Instructions were also given to grub up the remaining plants which showed signs of being bored by the larvagend to smash the stumps thoroughly in order to kill the grubs before they could develope. Thinning and pruning were extended over 192 acres, while infected plants were grubbed up over 219 acres of the thinned area.
- 137 Rodents and other animals—Rats, squirrels, haves and pigs did a good deal of damage to young bamboo seedlings in nurseries and transplants in the forests.
- 138 Fungus.—The spread of Fomes pappianus on bahul in Annaoti is reported as ariested by the cutting out of infected trees.
- 139. Lantana.—In the Melghat 1,800 acres were cleared of lantana by grubbing up in the rains at a cost of Rs. 498 A large part of this area was only lightly affected. The Divisional Forest Officer does not consider lantana as a serious menace as it occurs principally on steep escarpments where forest growth is scanty but a careful watch must be kept on its spreading into the gentler slopes suitable to teak growth.
- Caralepis Buchanani, which infests the open forests in the Melghat and smothers the young teak where it is most important to encourage all tree growth. As it sends out vigorous shoots when cut it will be necessary to deal more drastically with this pest than has been done in the past when it has been cut back only once in the felling rotation. It should be cut back at the time of marking the coupes and again during the cutting back operations, and if found necessary at further intervals during the rotation. During the year on this system 26,484 acres of the current and coming year's coupes were cleared besides 2,225 acres specially undertaken as badly infested. In Nimar 4,700 climbers apparently of the large Bauhinia Vahlii are reported to have been cut and in Betul 293,507 at a cost of Rs. 270-7-6. Such figures of numbers are very unreliable. It is better each year to fix on certain areas to be cleated of climbers and to see that this is done which fact can be easily ascertained on inspection.

SECTION 4. -- SYLVICULTURE.

- (a) NATURAL REPRODUCTION.
 - (i) Seed Reproduction.

NORTHERN CIRCLE.

141. Reproduction of seed was on the whole satisfactory. Sal seeded fairly in most parts of the Mandla Division, but in the Jubbulpore-Narsinghpur Division it was not so good. In Saugor, Damoh, Chhindwara, Hoshangabad and Southern Ranges of Seoni, teak and other species seeded fairly. Harra crop was above the average in Mandla but not good in Jubbulpore-Narsinghpur. Bamboos flowered sporadically in Mandla, Hoshangabad, Seoni, Jubbulpore-Narsinghpur and Saugor Divisions, but did not produce much in the way of seed.

Mohwa crop was below normal in Jubbulpore-Narsinghour, Damoh and Seoni. In the Chhindwara Division the best reproduction of teak has been in areas burnt over and along the banks of the Pench River. In Seoni the seeds of Bija were largely destroyed by insect attacks and the seeding of Saj particularly was below normal

SOUTHERN CIRCLE

Production of seed of the more important species was good throughout the Circle Reproduction by seed appears to be as poor on areas absolutely closed to grazing as on open areas which are always very heavily grazed. It is probable that light grazing or closure for short periods would be beneficial. Whether five year periods of alternate opening and closing will serve the purpose remains to be seen, it is being tried in some Divisions.

BERAR CIRCLE.

143. Reproduction from seed was generally poor, owing possibly to the lowering of the vitality of most species by the drought of the previous year but more probably to the wint of moisture in the soil from the short rainfall. In the Melghat alone is reproduction reported as normal and in Akola as fairly good in favourable localities. Generally, germination was poor and most of the seedlings that appeared perished before the mins. Formation of seed was generally poor with the exception of babul and in some places khair which as usual seeded profusely. Teak appeared to seed finly free but the seed appeared small and probably the percentage of fertility was low. Anjan failed to form much seed.

(ii) Reproduction by Coppice.

NORTHERN CIRCLE

* 144 Coppice reproduction was good in almost all the Divisions and more particularly in Saugor and Hoshangabad The results obtained by cutting back sal poles damaged by selection fellings in Banjar and Motinala Ranges of the Mandla Division was unsatisfactory. In the Damoh Division it is noticed that Ganja (Odina Wodier) and Salai (Boswelia Thurifera) trees of even 8" to 10" diameter have failed to coppice though neighbouring trees of far larger girth have done so; also that in the Seoni Division many of the shoots of older teak and Saj trees either failed to produce coppice shoots or produced a miserable crop. It is observed by the Divisional Forest Officer, Hoshangabad, that a good deal of injury is done to the shoots of felled trees by excessive trimming, the roots being often injured by barking.

SOUTHERN CIRCLE.

145. Coppice reproduction is good and the almost universal custom of felling in coppice coupes throughout the rains appears to give as good results as coppicing in the dry season. The habit has grown up partly from the annual sale of coupes in July at the commencement of the Forest year which is convenient for administrative purposes and partly from the fact that poles fetch a better price in the market when felled in the rains and allowed to season slowly in the open.

BERAR CIROLE.

Akola. Elsewhere it was poor, the shoots of the year being short and weakly and many of these dying off during the hot weather. In the Melghat it was found that the Korku purchasers were in the habit of felling their trees and leaving the stools undressed until they returned, sometimes two or three months later, to remove the timber. This has been stopped and it is hoped that the change in procedure will improve the coppice reproduction in the Melghat where it is generally poor.

(b) ARTIFICIAL REPRODUCTION (FORM NO. 18).

NORTHERN CIRCLE.

- 147. Referring to the remarks in the last report, the sowings of teak and tins a carried out in June 1912, in the Mandla Division, resulted in complete failure. The teak sown in the gaps in Coupe No. VI near Kanha Rest-house germinated freely and most of the seedlings were alive in May. The mound sowings of various frost hardy species carried out in the Banjar and Motinala Ranges were fairly successful.
- 148. According to the directions of the Chief Conservator of Forests as noted in the last report arrangements were made to start a nursery for planting out hurra at Kisli, Mandla Division
- 149. "Macaranga" seed obtained from Assam was tried in the Mandla Division and germinated freely, but most of the seedlings were dead in December and few if any survived the hot weather.
- 150 The Kanha (Mandla Division) Eucalyptus seed sown in 1912 failed to germinate, but the seedlings sown in 1911 were about 6" high in June 1913. This has been identified by the Forest Botanist as the E. terminalis.
- 151. In the Jubbulpore Division two maunds of Satkatha seed 'were sown broadcast (cost Rs. 4) and germinated well but could not survive the hot weather except khair seedlings.
- 152. In the above Division 300 pits were sown with Mhowa seed and fenced, and in 290 of them seedlings were produced. 680 seedlings and saplings of previous years were also fenced (cost Rs. 11). All these were found to be doing very well.
- 153. Nineteen thousand six hundred and fifty-three offsets of bamboos in Jubbulpore-Narsinghpur (cost Rs. 114) and 50 in Seoni were planted resulting in lailure. In the Garhakota Reserve, Saugor Division, 9,000 pits were sown with seed and offsets (each in equal number) at a cost of Rs. 437 and watered in the hot season (cost Rs. 162) but a large proportion of offsets only appeared alive, the seedlings not having survived.

The seedlings planted in mounds in 1910-11 and 1911-12 (in Saugor Division) were a failure.

154. In the Saugor Division, 1,200 patches were sown (in the Mohli block) with Anjan seed (two years old and not very good) during the year and germination was satisfactory in 338 patches. Also of the seedlings sown in 1911 those that germinated are in excellent condition, some of the three years old being three feet high in December. As to the sowings of the above species in the Saugor Range, of the same Division, last year, a number of them re-appeared with the monsoon contrary to what was mentioned in the last year's report.

A bamboo nursery was started at Mundra (Saugor Range) for planting out bamboo seedlings in Juliunder Felling Series.

- 155. In the Hoshangabad Division 80 sandal seedlings, reared in the Sohagpur garden, were planted out in Binaika Felling Series, but only 12 survived having been planted in the shade, others being under too light a cover.
- 156. In the Seoni Division 1,714 teak seedlings from the forests were planted out to fill gaps at Korai and Rukher and 1,223 were found to be doing well.

SOUTHERN CIRCLE.

157. The artificial propagation of trees in this Circle is only carried out on a very small scale in various divisions. This consists of the sowing of seed of various species but is of such a petty character that it can hardly be said to be beyond the experimental stage.

BERAR CIRCLE.

- 158. Regular Plantations.—The bamboo plantation at Yeota in Akola gave a revenue of Rs. 601 or Rs. 24 per acre. This was obtained from the sale of 3,532 bamboos exploited departmentally. This only gives an average of about 2 annas 8 pies per bamboo which appears low as the price of Kattang bamboos in Berar
- 159. Taungya system.—In the Amraoti, Buldana and Akola Divisions a total area of 671 acres was felled clear and given out for cultivation with forest seeds combined with field crops. Of this area, 531 acres were in babul bans and 140 acres in mixed scrub forests. In the area already under this system the results in stocking the land are generally good. The modifications in the rules whereby the period for cultivation of cotton is extended appear to make the system more popular while the attacks of the beetle appear to be diminished. In one area in Buldana germination of babul seed failed owing apparently to defective seed; in Akola one lessee failed to sow seed according to orders and his lease was cancelled while another was fined for the same fault. The results of this system of regeneration are on the whole very promising.
- ations was not so great as in the previous year owing mainly to the failure of the seed which was obtained from Mysore to germinate. As usual rats, squirrels and porcupines did considerable damage in nurseries and pigs to the transplants in the forests. In Yeotmal the experiment was tried of getting local malis to rear the young bamboos in their gardens, but it is understood that it has not been completely successful. Babul and nim seed were sown in various areas where the laungva system was not taken up by the people. Teak was sown over 300 acres in Buldana and anjan over 4 acres without much success. Generally such direct sowings in the forest are not of much use as the results are very poor and the trouble and expense of weeding and upkeep are considerable. The sowings of sandal in Akola are very promising, some 3,000 plants being reported as in a flourishing condition at the beginning of the rains in various localities. In Buldana the success was not so great.

(c) OPERATIONS FOR THE IMPROVEMENT OF GROWING STOCK. NORTHERN CIRCLE.

161. The work of cutting back operations was carried on over an area of 27,775 acres at a cost of Rs. 7,774 as against 21,899 acres and Rs. 5,364 as cost during the preceding year.

In the Hoshangabad Division the above operations were carried out on more extensive and thorough lines than in the past.

In the Damoh Division the cutting back of 6,194 lac bearing Ghont trees was continued at a cost of Rs. 83.

SOUTHERN CIRCLE.

162. Cutting back operations were carried out in all Divisions either by purchasers under the terms of their agreements or departmentally. The following statement compares the work done departmentally during the year with that of the previous year:—

| | | | | Arca. | Cost. | Revenue. |
|------------------------------|-----|-------------------|-----|--------------|--------------|----------|
| | | | | Acres. | Rs. | Rs. |
| Balaghat Bhandara | *** | 484 484 | *** | 314 1,165 | 326 80 | 429 |
| North Chanda South Chanda | *** | der Uha | *** | 979 4,045 | 359 1,256 | 952 |
| | | Total | ••• | 6,503 | 2,021 | 1,391 |
| | | Total for 1911-12 | | 5,160 | 2,749 | 3,041 |

The work shown as improvement felling in South Chanda last year has this year been included in cutting back operations with which it was combined; cutting back during the year under report being confined to creepers has been included under creeper cutting.

BERAR CIRCLE.

163. Thinnings were carried out in babul bans in Amraoti, Buldana and Akola. The inferior material remaining in coupes worked in previous years was cut back in all divisions. The results are shown in the following statement:—

| Division. | | Area in acres. | Cost. | Cost per acre. | Revenue from material obtain | ied, |
|---------------------|-----|----------------------|------------------|----------------|--|--------|
| | | Acres. | Rs. | Rs. a p | Rs. | |
| | Ì | | Thu | ining. | | |
| Amraoti | | 259 | 345 | 1 5 | 1 278 | |
| Buldana | | 314 | 103 | o 5 | 169 Value of material a | ansold |
| Akola | | 71 | 311 | 4 6 | 1,023 | |
| Total | | 644 | 759 | 1 2 1 | 2,470 | |
| Figures for 1911-12 | | 937 | 950 | 1 0 | 1,687 | |
| | | • | Cutti | ng back. | | |
| Melghat | | 17,3∩5 | 4,370 | 0 4 | 923 | |
| Amraoti | | 1,029 | 2 ⁹ 9 | 0 4 | 6 475 | |
| Buldana | | 2,122 | 1,244 | 0 9 | 5 S91 Value of material Rs 727. | unsold |
| Yeotmal | | 2,188 | 3,177 | 1 7 | 3 1,066 | |
| Ako¹a | | 1,974 | 2, 090 | 1 1 | o 1,416 In addition a bala last year's stoc sold for Rs 335. | k wa |
| Nimar | | 9,20% | 1 870 | 0 3 | 3 1,218 | |
| Betul | ••• | 7,149 | 1,219 | 0 2 | 180 | |
| Total | | 41 063 | 14,259 | 0 5 | 7 5,869 | |
| Figures for 1911-12 | | 3 ,298 | 10,447 | 0 4 | 6 13,358 | |

Pesides the above 1,364 malformed and frost-bitten teak and tinsa were cut back in Betul at a cost of Rs. 134.

- and Akola and a greater proportion of worthless material was removed than was formerly the case. Enquiries made by the Conservator in Akola showed that in the more accessible forests cutting back operations properly performed are decidedly remunerative, but that the original lessees are not satisfied with a mere 50 per cent profit on their outlay on these works and therefore leave much material uncut which fetches a ready sale. There is possibly some small risk of the material not being sold which appears to deter them. The Divisional Forest Officer was instructed to try to induce lessees to do more of this work in favourably situated coupes, but in the remoter forests we shall have to rely on departmental working for these operations for some years to come.
- 165. Besides the above operations in Bhongaon Reserve the young growing stock of babul was pruned and thinned over 411 acres at a cost of Rs. 640 and the stems of infected trees were smashed in order to destroy the larvae of the coelosterna spinator beetle and restrain its ravages.

(d) EXPERIMENTS. NORTHERN CIRCLE.

166. In the Jubbulpore Division experiments to test the effect of the season on felling in coppice reproduction were conducted in the Jubbulpore Range under the directions of the Imperial Botanist and the results of measurements of coppice shoots were communicated to him.

- 167. Further experiments made in the old Narsinghpur Division to test the effect of Salai for producing good coppice or pollard shoots resulted in failure as usual In the Jubbulpore Forests in several instances salai below 3 feet in girth was found to produce fine coppice shoots and they were also found to live in a healthy condition during the last 10 years.
- November to May, on tree growth and development of Forest crop are still being continued in the Damoh, Saugor and (old) Narsinghpur Divisions. The Divisional Forest Officer, Saugor, reports that arrangements were made for further ring countings of teak in Garhakota Working Circle and other localities. Some teak sections have been obtained and the ring countings will be carried out. For Narsinghpur and Damoh, no definite results are reported. In Damoh the measures relating to this experiment were only carried out during the year.
- 169. In the Jubbulpore-Narsinghpur Division lac was experimentally planted on 1,895 Palas (or Butea) trees (cost Rs. 9) with a view to produce seed lac for the Dhanwahi Forests and the result has been fairly good. Also 1,990 Ghont trees exhausted by the constant bearing of lac were cut back in the Murwara Range (cost Rs. 35) resulting in fine vigorous coppice shoots.
- 170. In the Hoshangabad Division one-fourth acre was planted and one-fourth sown with "Tur" in the Sohagpur garden. The young "Tur" plants were infected with lac at the beginning of the cold weather. The larvae swarmed but were all killed off in May probably owing to excessive heat. It is believed that this experiment has been tried and proved a failure at Pusa and its repetition here seems scarcely worth while, 200 young "Kakra" (Butea Frondosa) seedlings were planted in the Sohagpur garden and will be infected with lac in the next cold season. The cost of these experiments was Rs. 23. At Churna in the Bori Range 4½ acres of land was ploughed up, cost Rs. 27 and 3 years' old "Kakra" seedlings were planted over one-fourth acre and 80 per cent have survived and thrown up good vigorous shoots Kakra seed was sown in the rest of the area in June last. It is proposed to infect these with lac next cold weather. The cost amounted to Rs. 316.

In Damoh a small experiment was carried out to test the powers of certain species to reproduce from cuttings and with this object 8 cuttings of teak, 2 each of Seja, Saj and Cheola and 3 each of Ganja and Salai were planted in the Sagoni Rest-house compound. All failed except in the case of one, Ganja. This cutting was 2 to 3 inches in diameter. The Divisional Forest Officer remarks that the fact that even one "cutting" of Ganja in three was established itself is interesting as Ganja will not coppice freely. The matter is of interest rather than importance as Ganja is a species of very little use.

Instructions were issued to all Divisional Forest Officers in the Circle by the close of the preceding year that the rules in regard to future sample plots should be carefully observed and they were directed that the existing sample plots be brought into line with the rules, new registers being opened and the information already collected utilized as far as possible.

SOUTHERN CIRCLE.

- 171. Plots have been started in several Divisions for the purpose of ascertaining the rate of growth of trees of various species, the rate of coppice growth, the effect of thinnings on coppice shoots, the effect of measures to eradicate Ironi creepers, the yield of grass for fodder on different soils and under varied conditions, and the incidence of cattle grazing and the effect of the same on forest growth These were dealt with in some detail in last year's report and it will take some years yet to come to any definite conclusions.
- 172. Chir Pine is doing well in Balaghat on the Raigarh plateau and sandal wood is tending to reproduce itself naturally from the seed from the plantations in North Chanda which are carried probably by birds and germinate on the shady banks of neighbouring streams.

BERAR CIRCLE

- 173. The sample plots formed in Buldana and Akola to ascertain the correct intensity for thinnings in babul bans and those to investigate the varieties of babul were maintained as also were those in Buldana and Nimar to ascertain the correct height for pollarding anjan and to ascertain the best conditions for seed regeneration of the same species.
- 174. Experiments were started in Melghat to ascertain the possibility of introducing Sainar (fodder) and Motia (rusa) grass into areas where these species are not found.

In Nimar and Melghat experiments in tapping Salai for resin were continued. Those in Nimar are the more promising and they will be continued in both Divisions.

Two hundredweight of fibre of *Helicteres Isora* were sent to Dundee from Melghat for trial as a substitute for hemp.

175. Processing of timber.—The specimens of powellized and untreated timber under observation at Khandwa since 1910 gave further results as follows:—

In Betul 300 sleepers of Saj were treated under the direct supervision of the Forest Economist by a double treatment of Zinc chloride and heavy oil. The sleepers are to be made over to the Great Indian Peninsula Railway for trial in the railway track.

Experiments are in progress in various localities to ascertain the best methods of treatment of the more valuable fodder grasses under different conditions.

SECTION 5.—EXPLOITATION.

- (a) System of Management.
 - (i) Major Forest Produce.

NORTHERN CIRCLE.

- 176. Selection fellings.—In the Mandla Division in accordance with the provisions of the Working Plan, 1,971 and 848 Sal trees were selected for felling during the following year, respectively, in Coupe V of the Motinala Range and IX of the Banjar Range against 1,848 and 1,169 trees, respectively, of the last year. The area covered was 1,846 and 545 acres, respectively. 329 Sal trees were felled by lessees in Coupe VII and 552 in Coupe VIII of the Banjar Reserve against 395 trees of the preceding year; 937 trees in Coupe III and 855 in Coupe IV of Motinala, and 110 trees in the Khanat Forests were felled by lessees during the year against 1,945 in Motinala and 120 in Khanat Forests during the preceding year. 250 Bija trees were felled in the Mandla Range over an area of 200 acres.
- 177. Improvement fellings.—24,264 acres were worked over under this system as compared with 28,383 of last year. 5,091 acres could not be worked over due specially to the dearth of labour more or less keenly felt in almost all the Divisions, also some of the coupes remaining unsold for want of demand. In the Garhakota Reserve of the Saugor Division fellings were much heavier than in the past, particular attention being paid to the removal of inferior species interfering with the growth of teak. The fellings in the Bori Forests of the Hoshangabad Division were again postponed until the completion of road and offer of a satisfactory price for the lease of coupes.

- 178. Coppice with standard fellings.—14,053 acres were worked over under this system as against 9,726 acres of the preceding year. In the old Narsinghpur Division only 7 out of 11 coupes (opened during the year) could be sold, and even out of these 7, one was not touched at all by the lessee owing to the poor quality of the crop.
- 179. Unregulated fellings—The work was carried out in all the Divisions, except Chhindwara, and restricted generally to the nistar areas as well as those in which the prescriptions of the regular Working Plans were held in abeyance. This was moreover permitted in the Mandla Division to the extent of removal of teak and Soj timber of inding on excised areas and on Ryotwari Waste.

The orders of Covernment on the question of restricting unregulated fellings by commuters in the Mandla Division (referred to in the last Report) were awaited at the close of the year.

SOUTHERN CIRCLE

- 180 Selection fellings—These were undertaken in the South Chanda Division only, 3,814 trees being felled by the lessee of the Allapilli Block in compartment 13, area 480 acres. Some of the saleable teak left over from last year's operations were also exploited during the year.
- 181. Improvement follings—These were undertaken in all Divisions except Nagpur-Wardha over an area of 18,367 acres as compared with 13,350 acres in the previous year and 10,027 acres in 19,0-11. The principal increase occurred in the Balaghat (+2,238 acres) and Lilaspur (+2,410 acres) Divisions. In Balaghat this was due to the opening of cert an areas in the Paraswara and Dhansua Ranges for the removal of dead and dying teak trees in addition to the ordinary improvement fellings in the Sal areas of the Raigarh plateau. In Bilasque the increase is due to the introduction of new Working Plan prescriptions. In North Chanda the old Working Plans prescribed improvement fellings but in practice these are really coppied with standard fellings and come under that category.
- 182 Coppice with standard fellings.—This is the system most generally in use in all Divisions except South Chanda There was little increase in the total area worked over, being 40,290 acres compared with 40,096 acres worked in the preceding year. There are considerable arrears in certain Divisions from Working Plan prescriptions. There were deficits amounting to 1,095 acres in the Bhandara Division brought forward during the three years the plan has been in force. These are made up as follows:—
 - From 1910-11 316 acres, from 1911-12 730 acres and from the year under report 949 acres. In the Nagpur-Wardha Division 2,273 acres out of 9,001 remained unworked; this is the first year in which coupes were exploited according to the prescriptions of the recently revised Working Plan, the heaviest deficits being in the Umrer and East and West Pench Ranges.

BERAR CIRCLE.

183. These were made over 578 acres in the babul bans of Amraoti,

Buldana, and Akola Divisions as compared with 460 acres in the previous year.

Improvement fellings. 184. 28,385 acres were worked under this system as compared with 27,114 acres in the previous year.

185. 23,080 acres were worked under this system as compared with 13,189

Copplies with Standards. acres in 1911-1912 Last year there were large deficits owing to various causes and the return to a more normal figure is due mainly to the removal of labour difficulties.

Unregulated fellings.

186. These were made in the C Class areas in Berar and in the Nistar areas of the A Class in Nimar and Betul.

(ii) Minor Produce

NORTHERN CIRCLE

187. The principal items of minor produce obtained from the forests are --

Harri—The total value of haria removed from the forests during the year amounted to Ro 22,579 as against Rs. 14,065 during the proceeding very file great reart of the work was done departnentally in the Mandla Division owing to inadequace of offers from lessees.

Lac.—The value derived from this produce was Rs 1 .353 c compared with Rs. 15,622 obtained in the previous year

Measures were taken to prune coppies or infect the lac hearing trees specially in the following Divisions.—

Jubbulp re-Natsing hpur...1,895 Palas and 1,090 Ghont tree?Hoshangabad...11,576 various treesSeoni...850 Palas and other trees.Chhindwara...2,404 Palas and 503 Kusum trees

The Divisional Forest Officer, Hoshangabad, reports that the year was again disappointing as regards lac. The probagation in June and July was a failure as the majority of the latvæ was washed away by rain. The infection in November was successful but the greater part of it could not survive the hot weather. In Chhindwara the crop of last year is reported to have been damaged by monkeys and ants with the result that it was poor during the year under report. In the Damoh Division the crop is reported to have suffered from the prolonged hot season of 1912.

Mohwa and Achar.—This produce was almost entirely removed by purchasers and fetched Rs. 4,452 against Rs. 5,771. Free grants were only nominal and to the value of Rs. 19 against Rs. 1,492 during the preceding year. In the Damoh, Saugor and Jubbulpore Divisions the crop was poor owing to its destruction either by hail stones or unseasonal rains.

Hines and Horns.—The revenue obtained from this produce was Rs. 7,600 against Rs. 9.315 of the previous year. This is a difficult item to estimate with accuracy but from the market prices at present quoted, it seems that a larger return should be obtained.

Bamboos.—The total value derived from this produce was Rs. 57,346 against Rs. 53.912 of last year, viz., by removals by purchasers Rs 47,240, by leases Rs. 4,640 and by commuters Rs. 5,465. In addition, removals by free grantees amounted to Rs. 509 against Rs. 840 during the last year. In the Hoshangabad Division all the coupes of Magardha, Hoshangabad and Rahatgon Ranges and one coupe of Sohagpur were leased out on the Monopoly plus Royalty system, but the results were disappointing as instead of opening an export trade the lessees acted as middlemen and sold the produce to local purchasers. The areas in the Dhain block are as yet unworked. It is proposed to work a portion of this block by lease.

Grass.—The revenue obtained during the year as compared with that in the preceding year is shown below:—

| | | | | During the year. | During the pre- ceding year. |
|---------------------|------|-------|---|------------------|---------------------------------|
| | | | | Rs. | Rs. |
| By leasos | *14 | | | 14,696 | 12,670 |
| By commuters | **1 | | | 4,736 | 4,702 |
| By purchasers | *** | | | 4,642 | 2,018 |
| Departmental agency | 145 | i | } | 56,657 | 1,00,690 |
| Free grantees | i de | | | 693 | 881 |
| | | Total | | 81,424 | 1,20,961 |

The decrease during the year is all due to the supply of grass during the preceding year to the Bombay Presidency Again, the figures for the year include nearly Ps. 54,000 realized in the Hoshangabad Division during the year for grass supplied to Bombay law year

Graving —The following abstract of Firm Mariy shows the rumber of corregard at full rates, privileged rates and her of charge during the year and the preceding two years.—

| | | At iull 1 to | | | | | | | | | _k | |
|---|--|---------------|---------------------|---------|---------------------|---------|----------|-----------------|----------------------------|--------|------------------------|------------------------------|
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| | , No | No | Rs | No | N ₃ | 100 | Re | lv«. | ٠, | No | Rs , | Rs. |
| 1910 11 | Sco,an | 04,350 | 1,91 768 | 4+,3 10 | 13 3 15 | 25 1, | 0,37 | T.93 476 | 0,016 | | 2,27 | 7,7 ,177 |
| x)11'13 | . 1 574.46 | 77,593 | 2,01,607 | 41,073 | ,9 ,9 45 | 21,0,6 | 73 317 | 2,13 350 | 11,083 | | 1,150 | 1 37,507 |
| 1912 15 ************************************ | *** ** ******************************* | 77,861 | ŧ 07, į11 | 3,17, | 590 126 | 23 | 57,83 | 2,, 1,00 | פינ נ | 20 | 1 177 } | 6,62 827 |

The following are the details, by classes, of the animals on which full rates were paid:—

| Trick which with planets, make | Rate. | | Buffaloes | Cows and bulls | Goats and sheep. | Other animals. | Total |
|--------------------------------|-------|----|-----------|----------------------|------------------------|----------------|----------|
| O rdinary | *** | | 51,424 | 1,6 7,66 9 | 27,863 | 667 | 2,47,628 |
| Nom idic | *** | •• | 2,296 | 20,038 | 55 | 1,424 | 23,813 |
| Commercial | *** | | 1,20,102 | 2,20,269 | 45,073 | 2,777 | 388 131 |

The incidences of grazing on the total area in the several Divisions are:—Mandla 4'07 acres per head; Jubbulpore-Narsinghpur 340; Damoh 243; Saugor 2'50; Hoshangabad 6'78; Seoni 2'70 and Chhindwara 2.17. The total incidence for the Circle comes to 3'00 as against 3'16 during the last year

The question of reducing the grazing in the Garhakota Reserve was enquired into and it was agreed to reduce the number from 500 to 270 from the current year.

In accordance with the suggestion of the Chief Conservator of Forests in his Inspection Note for 1011 selected areas in some of the Felling Series permanently closed to grazing under the Working Plan were opened to limited grazing for short periods with the result that it appears to have been beneficial to the Forest and has assisted natural regeneration.

SOUTHERN CIRCLE.

These are sold on licenses in all Divisions. The supply is most alundant in the Balaghat, Bhandara and Chanda Divisions and the shortage in wagons on the Railway already noticed has had the usual prejudicial effect during the year under report. The plan of permitting bamboo traders to cut and collect bamboos in the open coupe and then to remove them on license has helped to increase sales and will be continued. There is considerable competition with the Zamindari forests, the owners, of which tend to undersell Government, this was particularly noticeable near the Pertabgarh Range Bhandara.

Bamboos are usually sold by the hundred, in some Divisions the cartload rate is in force, and in others single bamboos are sold at rates varying from one to three pice each.

- 189. The new grazing rules were introduced during the year. Cattle in the province are mainly grazed on privileged rates which is dealt with subsequently. As already explained grazing is universal except in certain areas in high forest and in coupes closed to permit of coppice reproduction.
- or sold on license. The blocks of forest more or less permanently reserved for fodder and called grass birs are usually leased out for the year and the coupes temporarily closed to grazing are open for the supply of fodder grass to individuals on licenses under the stamp system. Generally speaking, the former system is most profitable to Government.
- Thatch Grass. Sold from grass birs is retailed for thatch. The distinction is purely artificial as the same grass is often used for both purposes and its suitability depends on the season of cutting, almost any grass cut early in the year is suitable for fodder and very few grasses cut after seeding contain much in the way of nutriment. As regards sales on license, grass cut early is removed at a low royalty to encourage stall feeding, but the date after which grass is classed as thatch grass varies in different Divisions from the 15th October to the 1st January.
- 192. The Hurra crop is perhaps the most important minor produce leased in the Balaghat and Raipur Districts where the Terminalia Chebula is most abundant. The crop in Balaghat was sold in 1911-12 for Rs 27,000 and in the year under report was leased for three years at an annual rental of Rs. 6,667. The variation in annual yield of this product is considerable as will be shown by the following returns showing exports from Railway Station:—

| 1909-10 | 1910-11. | 1911-12. | 1912-13. |
|---------|----------|----------|-------------------|
| tons | tons. | tons | tons |
| 5,858 | 1,010 | 570 | 2,787 (7 months.) |

In the Raipur Division the Hurra crop for the year was sold for Rs. 3,221.

Lac. Was exploited departmentally in the Raipur Division and royalty was also realized on lac propagated on trees in Reserved Forests. The year under report was not a good one

194 The right to collect other miscellaneous minor produce is almost invariably leased out, licenses being only issued when the supply is small and unimportant.

BERAR CIRCLE.

195. Bamboos are removed on a 3-year rotation except in the Melghat and the Tapti Range where the rotation is 2 years. The revenue realized was Rs. 66,042 for removals by purchasers, Rs. 1,015 from departmental extraction, while bamboos to the value of Rs 4,569 were taken by free grantees and right holders. There was a drop of Rs 5,601 in the value of bamboos removed in the Melghat, due to the adoption of the figures for commutation fixed by the 1912 Conservators' Conference.

Rusa grass.—Extraction of the grass and the lease of the right to extract rusa oil yielded Rs. 33,491 as compared with Rs. 33,345 in 1911-12.

Harra—yielded Rs. 1,951, the crop being very poor.

Mohwa and achar-brought in Rs. 1,204.

Hides and horns—revenue amounted to Rs. 4,211.

Lac-which has nearly disappeared from the forests, yielded Rs. 614.

Mineral products—produced Rs. 10,041.

Grass—was sold on licenses and passes, by lease and on commutation. It was also worked departmentally in all Divisions, excepting Amraoti.

The quantity of grass removed was 166,256 tons on which a revenue of Rs. 1,61,547 was obtained, besides which the value of grass removed on free passes was estimated at Rs. 5,247, as compared with 168,486 tons, Rs. 1,92,964 and Rs. 4,070 for 1911-12.

196. The following table shows the number of animals grazed at different rates and free of charge:—

| | Ī | At full rates. | | | | At privileged rates. | | | | | Frae. | | | lotal fees. | |
|---------|----|--------------------------|-------------------|-------------------|-----|----------------------|----------|---------------------------|--------------------------|------------------|----------------------|----------|----------------------|-------------|--|
| Year. | Ţ, | Buffalges, | | | | Cows | Other | Fee | Fees. | | Buffaloes, | | | Value | |
| | | cows and bullocks. | Other animals. | er value bina. an | and | anı' mals. | Actuals. | Value at full rates | cows and builocks. | Other animals | at full rates. | Actuals. | at full rates. | | |
| | ì | No. | No | Rs | No | No. | No | Rs. | Rs. | No | No. | Rs. | Rs. | Rs. | |
| 1912.13 | ٠, | 1,246 55 2 | 497,800 | 4,69,096 | | 137,153 | ••• | 8,603 | S1 557 | 211,979 | 137 | 42,317 | 4.77 6 99 | 5,62,980 | |
| 1911,12 | } | 1,235,983 | 431,876 | 4,99,501 | 39 | 127,281 | | 8,022 | 46,192 | 216,409 | 640 | 44,841 | 4.37 523 | 5,20,534 | |

The totals are not quite correct, owing to an error by which fees were collected in the Melghat from ryotwari villages as was customary before the Settlement. When the mistake was discover d these fees were returned as far as possible, but the exact number of cattle which actually entered the reserves could not be ascertained.

In Berar proper the number of cattle grazed at full rates altered as follows:—Buffaloes increased from 164,216 to 166,422. Cows and bullocks from 870,197 to 886,958. Sheep and goats from 416,387 to 491,754. Other animals from 3,465 to 3,476. The total fees increased from Rs. 3,21,672 to Rs. 3,47,367.

The number of cows and bullocks grazed free under concessions made by Government fell from 225,837 to 206,352. This reduction is really a paper one, as in former years it was the practice to issue free passes to many persons who did not avail themselves of them. This has now been stopped.

Under the grazing rules as applied in Nimar the number of cattle grazed at ordinary rates altered as follows:—buffeloes rose from 21,899 to 22,318, cows and bullocks from 28,611 to 33,822; at nomadic rates the numbers fell, buffaloes from 2,621 to 1,570 and cows and bullocks from 4,069 to 3 802, while numbers at commercial rates fell, buffaloes from 16,258 to 15 092 and cows and bullocks from 35,620 to 34,262. The number grazed at privileged rates rose from 76,781 to 85,906.

In Betul the number of buffaloes at ordinary rates fell from 11,774 to 3,904, while those at nomadic rates increased from 5,768 to 15 580. The number of cows and bullocks similarly altered, those at ordinary rates falling from 46,244 to 22,398 and at commercial rates rising from 18,082 to 40,424.

The total numbers are in each case much the same as last year, the variations under the heads of ordinary and commercial being due to better classification.

Grazing at privileged rates was granted to 51,047 cows and bullocks as against 48,754 in 1911-12.

197. The grazing incidence in A Class forest in Buldana stood at 1'9 acres per head, in Amraoti at 1'2, in the Melghat at 7'2, in Yeotmal at 2'7, in Akola at 1'6, in Nimar at 6'4, and in Betul at 4'5 per head.

In C Class areas in Berar it stood at '5 acres in Amraoti, 6 in Buldana and Akola, and '7 in Yeotmal. The incidence is calculated on the basis of 1 buffalo being equal to 2 cows or bullocks.

(b) AGENCY OF EXPLOITATION (FORMS NO. 19 & 20).

(i) Department Agency, NORTHERN CIRCLE.

198. Major Produce.—The outturn of timber and suel cut and collected by departmental agency during the year was 359,381 and 538,921 cubic feet, respectively, as against 172,861 cubic feet of timber and 349,160 cubic feet of fuel in the

preceding year, and was obtained chiefly from the improvement fellings and cutting back operations carried out for the improvement of forest growth, and from timber, etc., cut in the widening of fire lines and for the construction of roads. A small quantity was also extracted for the construction of departmental buildings.

As explained in the last report exploitation was undertaken departmentally in the Damoh Division with the object of inducing contractors to take up work later on. The outturn of timber and fuel thus collected during the year was 225,000 and 443,535 cubic feet, respectively, as compared with the corresponding figures of 54,800 at d 264,830 cubic feet of the preceding year. The increase during the year is due to the operations having been undertaken on a considerably extended scale. The increase is also in a measure ascribed to the factors newly adopted to reduce timber, etc., to cubical contents.

The revenue derived from deputmental major produce during the year was 21,252 or 2 19 per cent of the total revenue of the forests for the Circle.

199. Minor Produce.— Bamboos 190 tons: Hura 751; Lac 2; Hides and Horns 3; Mineral Products 73; other minor produce 80, and grass 1,075 tons were extracted departmentially to the value of Rs 22 368 exclusive of Rs 51,000 realized on account of grass supplied to the Bombay Presidency during the preceding year. If this latter item be included the percentage with reference to the total revenue is 785 per cent.

200. On the subject of baling of grass for sale to agriculturists for encouraging stall-feeding, it may be stated as follows:—

Although the operations were not successful in the past it was under Government orders that they were again undertaken during the year, in consultation and with the assistance of the Agricultural Department.

In the (old) Jubbulpore Division, at Kakartala, grass was baled to supply the Agricultural Experimental Farm at Adhirtal. 70 balls weighing one manual each and 260 weighing half a maund each were made which, excepting 4 bales destroyed by cattle, were all delivered at the Farm. The object was to test the quality of the grass. The result is not yet known. The cost of the operations was Rs 97 and the revenue realized Rs. 102.

Similar operations were undertaken in the Khairi Range of the (old) Narsinghpur Division with a view to train the subordinates in the baling of grass and to supply baled grass to agriculturists for encouraging stall-feeding of cattle. When 24 bales were ready all the grass collected was spoilt by rain which continued for some days and the operations had consequently to be given up and the grass disposed of for what it fetched. The revenue realized was Rs. 75. No agriculturist came forward to purchase baled grass and it was therefore sold to the officer in charge of the Colliery at Mohpani. The cost on the operations was Rs. 39.

In the Damoh Division 195 bales (average weight $2\frac{1}{2}$ maunds) each of selected grass were prepared. To encourage sales 10 bales were sent to Bansa vilage, 41 to Hinderia and 8 to Patera. These villages lie in the Hatta-Damoh Haveli. Of these 59 bales, only 9 could be sold, though offered at cost price, vis., Re 0.8-3. The quality of the grass was good as it had been specially selected at the suggestion of the Deputy Director of Agriculture at Jubbulpore. The Divisional Forest Officer is of opinion that the only way to induce agriculturists to purchase baled grass is to cut the grass just before it flowers and as soon after as possible. The cultivators may at their convenience bale it themselves. They might also, to start with, being their own baling wires, obtained on deferred payments from the Revenue and Agricultural Department. These wires can be used with care several times. The total quantity of grass cut was 96 tons, of which 71 tons were baled. $4\frac{1}{2}$ tons baled and 8 tons of loose grass was sold to agriculturists and $62\frac{1}{2}$ tons baled and 5 tons loose to other purchasers. Of the balance of 16 tons (4 tons baled and 12 tons loose) 5 tons were sold at the close of the year and 5 tons used for thatching huts for road coolies. The remaining 6 tons will possibly have to be written off. The total cost of the operations in the Division was Rs. 595 and the revenue realized Rs. 635.

In the Saugor Division all the grass areas near Saugor and the Railway are taken up every year by the local contractors or by the Military Grass Farm authorities. Banda Range was, therefore, the area chosen for such operations in order to test the attitude of the agriculturists. A depôt was formed at Baraithi, 33 miles from Saugor. The grass which was of good quality (not more than 25 per cent being "spear" grass) was cut in November-December. 403 bales (of an average weight of 1½ maunds each) weighing in all 22 tons were prepared in January-February and offered at first for Re. 0-12-0 per bale. The sale of grass was widely advertised with the assistance of the Deputy Commissioner and the Revenue staff. By the end of June only 153 bales were sold for Rs 75 at Re. 0-9-0 and Re. 0-6-0 each. 250 bales still remain unsold, and asit would not pay to bring them into Saugor for sale they will have to be written off. Of the 22 tons cut and baled, 3 tons were sold to agriculturists and 5 to other purchasers.

In the Hoshangabad Division 581 bales (weighing from 2 to c_2^1 maunds each) were prepared 2t a cost of Rs 519. Of these, 189 were sold for Rs. 271 and the rest remained unsold, although every effort was made to sell it to agriculturists. The quality of grass is undoubtedly poor, the majority of it being "sukli," and in addition slightly discoloured and damaged by rain in November.

The following statement shows in brief the above operations carried out in the above four Divisions:—

| | Quartity if grade cut Qua | | | utity of o | to Live dr 1 | posed | G age remains ing unlaposed ot | | | Total | | | |
|-----------------------------|---------------------------|--------|--------------------|------------|-----------------|--------|--------------------------------------|--------|------------------|-----------|---|--|----------|
| Divletons. | | | A _i ric | nliurists | Uti | er# | | | era | | Total Revenue. | | f'encrks |
| | Baled | Loose. | Paled | I 005e | Paled | 100 c. | Baled | I oose | | | | | |
| | <u> </u> | | | <u></u> | } | | 1 | | Rs. a. p | Raap | | | |
| Jubbulpore- Larsinghpur. | 7 14 | | 7 | | 14 | • | ••• | *** | Ja1 13 0 | 97 10 0 | Sold to Supe literdent, Lip i mint il kum, at A hart il | | |
| Damoh . | 71 | 25 | 4} | 8 | 52] | r | **1 | *12 | 63 \$ 0 0 | (4) 59,00 | 5 Tone sold fiter close of the 3c r 5 Used t r hats. 6 Io be written off. | | |
| Sangor | 22 | | 3 | | 5 | ••• | 11 | | 71 13 0 | 145 3 0 | (a) Includes 1 a 100 cost of wise (for takes) | | |
| Hoshangahad | 46 | ,,, | 75 | | | ••• | 31 | | 371 B O | 518 12 0 | butchised in bre- | | |

GRASS OPERATIONS FOR SUPPLY TO THE BOMBAY PRESIDENCY.

201. As noted in the last report 7.950 tons of fodder grass was to be supplied from this Circle to the famine-stricken districts in the Bombay Presidency. This was arranged to be supplied as follows:—

| | | | | Tons. |
|-------------|-----|-----|-----|-------|
| Hoshangabad | *** | *** | *** | 6,500 |
| Jubhulpore | *** | *** | | 400 |
| Damoh | *** | *** | | 550 |
| Saugor | 3** | 4+4 | *** | 500 |

As explained in the last Report, owing to the difficulty in the supply of waggons the operations ended with the following result:—

| | 1 | Division. | | Quantity in tons, | Expenditure, | Revenue. |
|--------------|-------------|-----------|-------|-------------------|--------------|----------|
| | , | ^ | | | Rs. | Rs, |
| Hoshangaba | đ , | 410 | 14 | 3,185 | 95,815 | 1,08,450 |
| Jubbulpore-l | Narsinghpur | *** | | . 398 | 19 476 | 14,388 |
| Damoh | 444 | *** | •• | 418 | 10,939 | 14,097 |
| Saugor | 104 | *** | 16 | 484 | 16,342 | 17,236 |
| | | | Total | 4,485 | 1,33,572 | 1,54,171 |

Of the above the following figures relate to the previous year (1911-12):--

| | Divi | sion. | | Quantity in tons | Expenditure, | Revenue. |
|--------------|-------------|-------|---------|------------------|--------------|----------|
| | | | | | Rs. | Rs. |
| Hoshangaba | d | *** | • | 2,368 | 54,435 | 54,454 |
| Jubbulpore-N | Varsinghpur | *** | • | . 398 | 9,206 | 9,064 |
| Damoh | ••• | *** | | 367 | 9,289 | 12,660 |
| Sauger | , | *** | | . 460 | 15,993 | 14,860 |
| | | • | Cotal . | . 3,593 | 88,922 | 91,038 |

and the following figures to the year under report:-

| | D | vision. | | | - | Quantity in tons | Expenditure | Revenue. |
|-----------------|---------|---------|-----|-------|-------------|------------------|-------------|---------------|
| | | | | | | | Rs. | Rs. |
| Hoshangabad | *** | • | | | ••• | 817 | 41,380 | 53.996 |
|]ubbulpore-Nars | inghpur | | •• | | | | 1,270 | 5,324 |
| Damoh | ••• | | ••• | | ••• | 51 | 1,651 | 1,437 |
| Saugor | ••• | | | | | 24 | 349 | 2,3 76 |
| | | | | Total | | 892 | 44,650 | 63,123 |

The total amount of grass despatched differs from that shewn in the last year's report as the present figures include an item of 21 tons which was despatched from Danish but was not delivered, and having decayed was destroyed by the Railway authorities. Moreover, incorrect figures were received from one of the Divisions. The grass was despatched to the following districts of the Bombay Presidency:

| | | | 1911-12. | | | 1912-13. | |
|------------------------|-----|------------------------------|-------------------------------|--------------------------|------------------------------|-------------------------------|--------------------------|
| Division. | | To Ahmedab₄d District. | To Ahmednagar District. | To Kaira District, | To Ahmedabad District. | To Ahmednagar District. | To Kaira District. |
| | | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. |
| Hoshungabad | ** | 1,944 | 307 | 127 | 752 | •,• | 65 |
| Jubbulpore-Narsinghpur | •• | 398 | | | | *** | *** |
| Damoh | ••• | 367 | ļ | *** | 51 | | |
| Saugor | *** | 381 | | 79 | 9 | | 15 |
| Total | •• | 3,090 | 297 | 206 | 812 | *** | 80 |

The figures of expenditure and revenue also differ from those shown last year, and this is mainly due to the actual adjustments not having been made by the time the last report was written.

The figures shown in the present report may be taken as finally correct.

SOUTHERN CIRCLE.

202. Major Forest Produce.—Departmental operations for purposes of exploitation were undertaken in North and South Chanda, Nagpur-Wardha and Bilaspur. In other Divisions the work was mainly confined to the disposal of trees felled along roads and fire lines or such material as was required for departmental buildings, &c. In North Chanda departmental working was considerably reduced owing to purchasers coming forward to buy standing trees in coupes. In South Chanda teak and other valuable trees were felled and sawn up, a beginning was made in the training of local coolies as sawyers which has been successful. These men will always be very useful for working up crooked and defective logs

In Bilaspur the more remote forests were worked departmentally in order to stimulate the export of poles and to determine what profit could be made by purchasers. It was found that fuel could hardly be worked at a profit and extraction was mainly confined to poles. The yield per acre of fuel being barely 50 cubic feet. There was an increase in departmental working in Nagpur in order to carry out as far as possible the provisions of the recently introduced working plan. This was mainly in the East Pench Range which was not sold on lease owing to want of suitable offers from probable purchasers.

MINOR FOREST PRODUCE.

203. In compliance with the orders of the Local Administration efforts to extend the use of fodder grass by agriculturists were continued during the year, but from the agricultural point of view were not a success. The operation of baling entails carting hay to the baling press from which it is sold, whereas the agriculturist who wants hay can very well cut and cart the hay himself direct from the meadow to his house, thus saving the expenses of a double journey. It is also found by experiment that owing to the size of the cart, comparatively few bales can be carried and no advantage is gained in carting a larger quantity, leaving out of consideration the actual cost of baling. The experiment was a success from a financial point of view as baled hay is readily bought for export to towns on the line of railway.

204. The following statement gives the result of operations called for by the Chief Conservator:—

| | | Gias, c | cut and led. | | Grass sold | | Used | Undis- | |
|---------------|------|---------|-----------------|----------------------------|---------------|-----------------------------|----------------------|--------------------------|----------|
| Division. | | Amount, | Cost. | To agricul- turists. | To others. | Total value received. | depart- mentally. | of at end of year. | Remarks |
| | | Tons. | R9. | Tons. | Tons. | Rs. | Tons. | Tons | |
| Bhandara | **• | 33 | 791 | *** | 27 | 433 | 6 | *** | Cosí not |
| North Chanda | ••• | бо | 894 | | 58 | 1,292 | | 2 | |
| Nagpur-Wardha | 4.04 | 114 | 2,794 | 2 | 76 | 3,310 5 035 | ••• | 36 | |

This gives a surplus of Rs. 2,241. In Nagpur-Wardha 51 tons of unpressed grass were cut at a cost of about Rs. 234 and sold for Rs. 503 in addition to the baling operations noted above; of the 36 tons undisposed of at the end of the year under report 10 tons were sold at reduced rates for Rs. 130 after the close of the year, leaving 26 tons to be written off stock. The whole stock might have sold at reduced rates but for an error on the part of the Civil authorities in holding up the higher rates till too late. A great deal of the time of the staff was taken up in looking after these operations to the deteriment of their proper work, but should the work be continued regularly in future, a special temporary staff should be employed for the purpose.

In Bhandara fodder baling and thatch grass cutting operations were done at the same time, the total cost of which amounted to Rs. 298.

There was no work undertaken in regard to the supply of grass to the Bombay Presidency, sums of Rs. 437 and Rs. 66 being adjusted during the year on account of expenditure and revenue from the previous years' operations.

The outstanding of Rs. 1,582 unadjusted in last year's Annual Report on account of the failure of a contractor to complete his contract has been written off during the current year.

205. Lac.—In Bilaspur some $4\frac{1}{2}$ tons of lac were collected departmentally with the help of forest villagers and sold, yielding a net profit of Rs. 1,248.

In Bhandara about two tons of lac were collected and sold at a profit of Rs. 617, and in Raipur a very small amount was collected and sold departmentally.

206. The total value of disposals of all kinds of forest produce amounted to Rs. 71,667.

BERAR CIRCLE.

207. 187, 158 cubic feet of timber and 2,56,699 cubic feet of fuel were removed by departmental agency in cultural operations and widening lines as against 196,589 cubic feet of timber and 253,742 cubic feet of fuel in 1911-12. 28,811 bamboos as against 16,416 in the previous year.

In all Divisions small collections of grass for the use of touring officers were made departmentally. In addition to these some experiments in baling grass for disposal to agriculturists were made in Yeotmal, Akola, Nimar and Betul. The figures obtained are shewn in the following summary:—

| | Quantity of grass. | | Cost of | Quantity disposed of | | Revenue rea- | | To be written |
|-----------|--------------------|-------|------------------|----------------------------|------------|------------------------------|--------------|------------------|
| Division. | Cut. | Baled | opera- tions. | To agricul- turists. | To others. | From agricul- turists. | From others. | written off. |
| | Tons. | Ton: | Rs. | Tońs. | Tons. | Rs. | Rs. | Tons. |
| Yeotmal | 255 | 34 | 2,390 | | 239 | | 3,499 | 16 |
| Akola | 67 | 67 | 786 | 45 | 22 | 78: | 433 | |
| Nimar | 171 | 169 | 2,228 | 129 | 40 | 1 2,579 | 1,410 | 2 |
| Betul | 240 | 73 | 472 | | 175 | | 458 | 65 |
| Total . | 733 | 343 | 5,876 | 174 | 476 | 2,360 | 5,800 | 83 |

In no district did there appear any great keenness on the part of agriculturists to obtain baled grass for stall-feeding. In Akola the Divisional Officer reports that he had to persuade various substantial men to take up as much as they did. In Yeotmal the heavy demand in the town precluded all sales to agriculturists In Nimar the agriculturists demand though slightly larger could not be termed urgent as only 128 tons were sold to this class. In Betul there was no such demand owing mainly to the existence of large malguzari forests and the absence of the principle of stall-feeding. If the operations had depended on an agricultural demand they would have resulted in heavy loss. The sales to others just met the expenses of working and the sales to agriculturists gave the profits on the operations. Though the percentage of profit is high the total transaction is but small and it is doubtful whether there would be any profit at all except in seasons of fodder scarcity. Baling operations entail a good deal of dislocation of work.

(ii) Purchasers.

NORTHERN CIRCLE.

208. Major Produce.—The outturn of timber and fuel removed by purchasers from the forests of the Circle during the year amounted to 2,341,553 and 4,642,931 cubic feet, respectively, as compared with 1,577,897 cubic feet of

timber and 3,889,600 cubic feet of fuel in the preceding year. The revenue derived from this source was Rs. 1,81,921 as against Rs. 1,60,254 of the previous year or 18.69 per cent of the gross revenue of the year. The increase in revenue is due to better demand.

209. Minor Produce.—The total value of the minor produce removed by purchasers including bamboos, grass, grazing and other minor produce was Rs. 6,19,852 against Rs. 4,36,752 of the preceding year.

SOUTHERN CIRCLE.

The usual system of auction sales of coupes was continued during the year and is gradually ousting the method of sales by licenses, though it will probably never succeed in altogether superseding it. The well tried stamp system continued to be used for sales by licenses Paid vendors are being gradually replaced by commission vendors who are paid varying rates of commission on the sales they effect. Paid vendors are only employed where sales are few and far between. A proposal to issue tickets for the lower values of stamps was mooted and is still under the consideration of the Chief Conservator. It is held that a great deal of the vendor's time is spent in issuing licenses for comparatively small sums and licensees are consequently kept waiting.

Leases are usually granted for annual coupes, generally at the beginning of the forest year when auctions are held. There are two long leases in force—one with the Bengal Timber Trading Company in Balaghat and the other with Messrs. Bhickraj Sagarmull Bugla in the South Chanda District, both noted in last year's report. The latter have now in course of erection a large Steam Saw Mill on the outskirts of the town of Chanda and the criticism made in last year's Annual Report certainly appears justifiable; on the other hand, it must be remembered that there is a fairly big cart traffic in the direction of Allapilli from Chanda, so that carting in the reverse direction is cheaper. It is probable that a light bullock tramway alongside the present cart road would be a paying proposition if the permission of the Public Works Department to its construction were obtained. Such a tramway would to a great extent obviate the repairs caused by the cutting up of the road by carts.

The total value of the year's sales amounted to Rs. 3,39,191.

produce of any importance is leased out for one or more years. Myrabolams being a variable crop, the annual lease is a somewhat speculative investment on the part of the purchaser; the Divisional Officer, Balaghat, advocates a five years' lease so that profits and losses in good and bad years will counterbalance. Some trouble is caused by the lessees of trees in Malguzari areas whose employees outbid the Government lessee in purchasing from villagers; during the year under report an important case was brought into Court by the Government lessee bearing on this point against an influential malguzar which is still pending. The total value of the year's sales amounted to Rs. 5,03,663.

BERAR CIRCLE.

212. Purchasers removed 822,568 cubic feet of timber and 3,382,984 cubic feet of fuel as against 837,256 cubic feet and 2,617,283 cubic feet in 1911-12.

The revenue from minor produce removed by purchasers, including the value of grazing, amounted to Rs. 7,76,518 as against Rs. 7,25,741 in the previous year. The increase is attributable to the strong demand for fodder grass and grazing.

(iii) Rights and Privileges.

NORTHERN CIRCLE.

213. The following statement represents the estimated quantity and value of the produce granted free or at privileged rates during the year:—

| | Tin | iber. | Fuel. | | Bamboos. | | Grass and grazing. | Other minor produce. | Total. |
|--|--------|--------|---------|--------|----------|--------|--------------------------|----------------------|---------|
| | Cít, | Value. | Cft. | Value. | Tons. | Value. | Value. | Value. | Value. |
| | | Rs. | | Rs. | | Rs. | Rs. | Rs. | Rs. |
| Right-holders | | •• | | , | , | | | | ••• |
| Free grantees | 24,163 | 1,242 | 276,493 | 3,525 | 91 | 509 | 5,125 | 899 | 11,300 |
| Grants at privileged of reduced rates, | | ••• | 346,112 | 5,408 | 1,700 | 5,466 | 62,500 | 24,197 | 97,57 x |

Thus the total value of grants at privileged rates amounted to Rs. 97,571 and the loss sustained was approximately Rs. 1,96,800 including Rs. 1,93,100 on account of grazing.

Fuel was granted only in the Seoni Division and other minor produce more or less in all the Divisions.

SOUTHERN CIRCLE

214. The following statement is according to Government of India Circular No. 9—113-7, dated the 26th June 1911:—

| | Tım | ber. | Fuel | Fuel. | | ncluding | Grass Other and minor grazing produce, | | Total |
|--------------------------|--------|---------------|-----------|--------|-----------|----------|--|--------|----------|
| | Cft. | V alue | Cft. | Value. | Number. | Value. | Value | Value. | Value. |
| | | | | | | | Rs. | Rs. | Rs |
| Right-holders | | | 191 | *** | | ,,, | ••• | *** | ••• |
| Free grantees | 72,128 | 3,156 | 544.927 | 3,802 | 705,189 | 5,643 | 2,518 | 2,530 | 17,649 |
| Grants at reduced rates. | 1,470 | 35 | 3 101,000 | 14 430 | 1,597,994 | 8,257 | 1,48,748 | 575 | 1,72,045 |
| Total | 73 598 | 3,191 | 3,645,927 | 18,232 | 2 303,183 | 13,900 | 1,51,260 | 3,105 | 1,89,694 |

Commutation by which villagers pay lump sums down for the value of forest produce removed during the year was in force in Balaghat, South Chanda and Raipur. This method of recovering revenue is only suitable in B Class forests or where the forests are so extensive as to be out of proportion to the cultivated area. These factors apply in the case of the South Chanda and Balaghat Divisions respectively. Measures are being taken to restrict commutation in Raipur. Commutation is limited as regards major produce to the removal of dry wood and when this does not exist in sufficient quantities to meet the demand of the villagers they are apt to manufacture fuel by the simple process of cutting green trees and letting them dry where they fall. This evasion is difficult to detect and is detrimental to the forest.

The principal privilege is that of grazing at nominal rates which is given to agriculturists on the basis of 4 cattle to each working plough without reference to area. It is not difficult to see how advantage can be taken of this by cattle owners who keep far more cattle than they require for cultivation, and proposals have been made which will prevent the number of working ploughs being exaggerated.

Cattle are rated under three classes (a) Privileged, (b) Ordinary and (c) Commercial. The rates for (a) and (b) are specially laid down for agriculturists and are based on the number of working ploughs in the possession of the

individual ryot. No proportion is laid down between a working plough and the area of land tilled, and the commercial rates exceed the other two, being usually twice the ordinary and eight times the privileged rates. Considerable power is placed in the hands of the patwari who has to write up the passes of cattle owners and agriculturists. The new rules made it inevitable that there should be a general rise all round in the number of cattle grazed at privileged and ordinary rates and it is probable that unless steps are taken to proportion the number of working ploughs to the area tilled the number of cattle so grazed will go on increasing. As a plough can be bought for four rupees, there is a great inducement for an agriculturist to lay in a good number and call them all working ploughs.

BERAR CIRCLE.

215. The following statement shows the estimated quantity and value of produce granted tree or at privileged rates during 1912-13:—

| | Tim | ber. | Fue | Fuel. | | 00", | Grass and grazing. | Other minor produce. | Total. |
|--------------------------|----------|--------|-----------|---------|----------|--------|--------------------------|----------------------|----------|
| | Cft | Value, | Cít. | Value | No | Value | Value, | Value. | Value |
| | | Rs. | | Rs. | | R5. | Rs. | Rs. | Rs. |
| Right-holders | 74 364 | 1,263 | 1,374,019 | 28,911 | 263,400 | 3,980 | 17,208 | 4,167 | 55,528 |
| Fice grantees | 32 678 | 7,282 | 320,327 | 4,476 | 80,840 | 589 | 29,610 | 1,473 | 43 430 |
| Grants at reduced rates. | 873 | 162 | 272 370 | 1,284 | 283,010 | 2317 | 88,117 | 642 | 92,552 |
| Total | 1,01,915 | 8,706 | 1,866,716 | 34 671 | 6,32,250 | 6,886 | 1,34,965 | 6,282 | 1,91,510 |
| Figures of 1911-12 | 51,091 | 5708 | 1 81c,679 | 36 72 x | 945,341 | 12,007 | 1,32,452 | 9,894 | 1,06,782 |

Under the head of right holders are included those to whom concessions are granted under Government orders in the C Class areas in Berar. True right-holders are very few, being only the villagers of Panala, who may graze 250 head in the Marwari Reserve of Yeotmal and the Gosains of Tapowan Khurd in Akola who may graze 125 head.

(iv) Free Grants.

NORTHERN CIRCLE.

216. Free grants were allowed to forest villagers for home consumption, to other villagers whose houses were destroyed by fire in Mandla and Damoh, and to the District Council, Damoh, for fencing road-side plants. Some free grants were also allowed to the Friends' Mission in Hoshangabad for erection of hurs in settling a village for famine orphans. The details are given in the statement in the preceding section and amounted to Rs. 11,300.

The aggregate value of produce granted free and at concessional rates was Rs. 2,08,100.

SOUTHERN CIRCLE.

217. The only non-recurring large grants made during the year were on account of villages burnt down. The usual free grants were made to forest villagers, touring officials and employees of forest lessees and the total value is estimated as follows:—

| | | | Ks. | | | Rs. |
|---------|-----|-----|-------|---------------------|-----|-------|
| Timber | *** | *** | 3,156 | Grass and grazing | *** | 2,518 |
| Fuel | *** | ••• | 3,802 | Other minor produce | ••• | 2,530 |
| Bamboos | *** | *** | 5,643 | •1• | *** | , , , |
| | | | BERAR | CIRCLE. | | |

218. The value of free grants made amounted to Rs. 43,430, details being shown in the statement in the previous section. They are made to forest villages

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and to inhabitants of revenue villages whose houses have been destroyed by fire. A few retired forest officials are allowed free grazing for their cattle.

(c) OUTTURN AND SOURCES OF FOREST PRODUCE. NORTHERN CIRCLE.

The total outturn of major produce was 2,725,097 cubic feet timber and 5,458,345 cubic feet fuel against 1,779 374 and 4,492,362 cubic feet, respectively, of the previous year. The total value of the minor produce removed was Rs. 702,753 against Rs. 5,49,576 of the preceding year. This includes Rs. 57 5, for bamboos, Rs. 4,69,707 for grazing, Rs 81,424 for grass and Rs. 93,767 for other minor produce, including harra, lac, mohwa and achar, hides and horns, &c, &c.,

The number of cattle grazed in the reserved forests was 1,273,593 against 1,487,140 in the preceding year.

The total expenditure incurred on the management of State forests was Rs. 2,00,463 as against Rs. 1,83 320.

SOUTHERN CIRCLE.

220. The following statement compares the total removals of all kinds of produce from the A Class forest during the year with those of the preceding year:—

| • | | | 1912-13. | 1911-12. |
|---|--------------------|-----|--------------------------|------------------------------------|
| | (Government Agency | ••• | 323,537 | 336,79 7 |
| Timber, cubic feet | Purchasers | ••• | 4,813,099 | 3,153,598 |
| Fuel, cubic feet | | *** | 14,450,162 16,251,386 | 14,550,781 14,593,003 |
| Banboos, numbers Grazing, animals | *** | ••• | 731,887 | 743,154 |
| - | Government Agency | ₩. | 1,094 | 3,095 |
| Fodder and thatch grass, tons. | Purchasers | ∫ | 152,639 | 81,902 |
| Other minor produce, tons Mineral products, cubic feet | | | 23,925 1,088,409 cft. | 28,671 408 Tons 226,660 Cft. |

In addition to this it is estimated that the yield from B Class areas yielded 309,584 cubic feet of timber, 1,889,019 cubic feet of fuel. Bamboos 223,235, 10,851 tons of fodder and thatch grass. 4,884 tons of other minor produce and 9,079 cubic feet of mineral products and yielded grazing to 137,657 head of all animals. These estimates are not very reliable however. Of the more valuable products teak 14,420 cubic feet to the value of Rs. 13,912 was extracted from the Allapali forest and sal sleepers measuring 63,418 cubic feet were extracted from the Raigarh forests.

Bamboos.—There was an increase in the quantity of bamboo extracted of 1,658,383 particularly in the Balaghat Division, though it is small compared to what might be removed if the raffic on the railway was not restricted by the shortage of wagons. The Divisional Forest Officer reports that merchants from Berar who pure ase bamboos from the local exporters had to return in despair owing to the want of wagons.

Grazu g.—The slight decrease in the number of animals grazed is due to working plan restrictions and to the lowering of grazing incidence.

The following shows the number of cattle grazed at various rates:-

| | Commercial rates Ordinary ra | | | ry rates. | Privileg | ed rates. | Fr | ce. | Total- | |
|--------------------------------|------------------------------|--|-------------------|-------------------|----------------|------------------------|--------------|--------------|--------------------|---------|
| | 1912-13. | 1917-12. | 1912-13. | 1911-12. | 1912-13. | 1911-12 | 1912-13. | 1911-12. | 1912-13. | 911-12. |
| Horned cattle Sheep, goats apo | 113 572 | 33,8 ₅₄ 53,36 ₃ | 211,642 44,157 | 325,848 60,801 | 432,643 493 | 422,4 86 846 | 8,133 332 | 7,482 201 | 765,990 103,554 | 789,670 |

There was a falling off in the total number of animals grazed though there was some increase in those grazed at privileged rates. The figures do not however call for any special explanation.

Fodder and Thatch Grass.—The cessation of the Bombay grass famine operations caused a decrease in the amount of fodder extracted departmentally. The increase in the total amount of grass removed has not been clearly explained. It is fairly general though probably more apparent than real. The estimates of outturn are based on receipts and grass birs having fetched better prices it is presumed an equivalent larger amount of grass was removed. It is practically impossible to differentiate between fodder and thatch grass which depends to what use the consumer puts the material removed.

There was an increase in the amount of minerals removed due to the inclusion of road metal removed by the Public Works Department being included in the form during the year for the first time in some Divisions. No explanations have however been given by Divisional Officers.

There was a decrease in the removal of other minor products principally under myrabolams, the year under report not being a good one.

BERAR CIRCLE.

221. The following statement shows the outturn of major produce and the value of the outturn of minor produce extracted by all agencies from the different classes of Government forests:—

| | | Major | produ ce. | | M | inor produc | e. | |
|------------------------------|-----|----------------------------------|------------------------|----------|----------------------|-------------|-----------|--------------------------|
| Class of forests. | | Timber, cubic feet, solid. | Fuel cubic feet solid, | Bamboos. | Fodder. | Gra≥ing. | Rusa oil. | Mis- cellane- ous, |
| | | | | Rs | Rs. | Rs. | Rs. | Rs. |
| Class A | ••• | 552,524 | 2,395,025 | 37,775 | 61,519 | 1,20,746 | 13,845 | 15,408 |
| ,, B | *** | 3,022 | 31,159 | 1,441 | 47,285 | 5,485 | 337 | 1,385 |
| " С | ,,, | 6 ≥,863 | 1,309,990 | 1,167 | 3,824 | 2,60,395 | 73 | 21,952 |
| Total | ••• | 618,409 | 3,736,174 | 40,383 | 1,12,628 | 3,87,126 | 1 4,255 | 38,745 |
| NIMAR AND BETU DIVISIONS. | IL | ' | | | | | | |
| Class A | *** | 498,359 | 1,597,855 | 31,243 | 54,166 | 1,31,868 | 19,236 | 17,463 |
| ,, B-I | *10 | ••• | ••• | ļ | *** | 274 | | 14* |
| Total | *** | 498,359 | 1 597,855 | 31,243 | 54,166 | 1,32,142 | 19,236 | 17,463 |
| Total 1912-13 | ••• | 1,116,768 | 5,3,14,029 | 71,626 | ı 6 6,794 | 5,19 268 | 33,491 | 56,208 |
| Total 1911-12 | ••• | 1,084,938 | 4,566,189 | 81,098 | 1,97,034 | 4 80,981 | 33,664 | 52,372 |
| Increase or decrease | .,, | +31,830 | + 767,840 | -9,472 | -30,240 | + 33,287 | -173 | + 3,836 |

CHAPTER III.

FINANCIAL RESULTS (FORM No. 24).

NORTHERN CIRCLE.

222. Form No. 24 prepared by the Comptroller shows the details of revenue and expenditure of the year. In the following statement figures of the year are compared with those of the preceding year and average of the five years previous to it:—

| Y | ear. | | Receipts, | Charges. | Surplus. |
|--|---------------------------------------|-----|------------|----------|------------|
| ************************************** | · · · · · · · · · · · · · · · · · · · | | Rs. | Rs. | Rs. |
| Average of five ye | ars from 1906-07 | to | 5,63,073 | 4,60,322 | + 1,02,751 |
| т911-12 | *** | ••• | 7,89,414 | 5,96,676 | + 1,92,738 |
| 1912-13 | *** | ••• | 9,72,853 | 6,20,813 | + 3,52,040 |
| Difference between 19 | 12-13 and 1911-12 | *** | + 1,87,439 | + 24,137 | + 1,59 302 |

The above will show that there was an increase in the receipts, expenditure and surplus of the year as compared with the corresponding figures of the previous year. The surplus of revenue over expenditure is shared by all the Divisions of the Circle.

The increase of Rs. 1,83,439 in the receipts for the year over that of the preceding year was chiefly due to the introduction of the new grazing rules, and in some measure to better prices obtained from sales of coupes to lessees, and to outstandings from last year realized during the year.

Of the gross revenue Rs. 2,03,177 were realized from the sale of major produce, vis, timper and fuel removed by departnental agency and by consumers and purchasers. It shows an increase of Rs. 22,277 over the corresponding figure for the preceding year. The revenue from timber represents 15 per cent of the gross revenue and that from fuel 6. Of this 21 per cent 2 per cent represents the major produce removed departmentally and 19 per cent that removed by consumers and purchasers.

The total revenue from the sale of minor produce which includes bamboos, grass, grazing and other minor produce was Rs. 7.25,783 cr 75 per cent of the gross revenue and shows an increase of Rs. 1,52,617 over the corresponding figure for the previous year.

Miscellaneous revenue amounted to Rs. 43,897 or 4 per cent of the gross revenue and shows an increase of Rs. 8,545 over the previous year's figure.

224. The total expenditure of the year amounts to Rs 6,20,813 or Rs. 24,137 more than that incurred in the preceding year. The expenditure of the year represents 64 per cent of the gross revenue, while the proportion of net to gross revenue is 36 per cent.

Forty one per cent of the total expenditure was incurred on A—Conservancy and works and 59 per cent on B—Establishment, the total expenditure under these heads being Rs 2,55,164 and Rs. 3,65,649 respectively.

Of the total increase of expenditure Rs. 2,292 was under A—Conservancy and works and Rs. 21,845 under B—Establishment. In the former the increase was principally due to departmental collection of Harra in Mandla and departmental operations of timber and fuel in Damoh. Also more commission having been required to be paid to license vendors for the increased revenue from grazin; greater expenditure on reads, fire protection and other works; Rs. 20 000 odd having been paid as the purchase money, etc., of the Indpura and Singora Malguzari in the Hoshangabad Division. Moreover the expenditure during the year includes nearly Rs 45,000 on account of grass supplied to the Bombay Fresidency mostly during the preceding year and but for this and for the purchase of the malguzari villages referred to above the expenditure of the year would certainly have been much less instead of more than that of the preceding year

Under B—Establishment the increase is due principally to the addition of some Imperial and Provincial Officers to the strength of the Circle; to the increased rate of pay for Forest Guards and travelling allowance to Rangers and Range Assistants and to the increase in establishment and contingencies consequent on the splitting up of two ranges in the old Mandla Division into four.

- 225. The total amount of revenue outstanding fell from Rs. 55,884 to Rs. 54,322.
- disbursers amounted to Rs 24,970 against Rs 19,597 of the previous year. The difference is ascribed to the non recovery of taccavi advances from forest villagers in some Divisions due to failure of crops and other reasons, to the payment of remuneration to patwaris and revenue inspectors in the Mandla Livision not having been adjusted and to the advances on horse collection in the same Division not having been adjusted by the close of the year
- 227. The estimated value of stock at the close of the year was Rs 1,35,526 against Rs. 1,78 835 of the preceding year.

SOUTHERN CIRCLE.

228. The following statement compares the revenue and expenditure of the year with those of the previous year and with the average of the preceding five years.

| | Year. | | Receipts. | Charges. | Surplus. |
|--------------------|---------|-----|-----------------|----------|----------|
| 1912 13 . | *** | | 9 53.413 | 6,33,501 | 3,19,912 |
| 1911-12 | *** | ••• | 7 60,145 | 6,62,763 | 96,382 |
| Average 1906-07 to | 1910-11 | ••• | 6,89,509 | 6,02,291 | 87,218 |

There was an increase in revenue of ks. 1,93,268, a decrease in expenditure of Rs. 30,262 and an increase in su plus of Rs 2,23530 as compared with the figures of the previous year but, if the receipts and charges on account of Bombay grass operations in 1911-12 are omitted both revenue and expenditure as well as surplus show an increase of Rs 2,41,398, Rs. 8,571 and 2,32,827 respectively over the previous year.

229. The increase in revenue of the year over that of the preceding year is common to all Divisions except North (handa which shows a slight decrease due to the inclusion in 191112 of a sum of Rs 29949 on account of grass operations and also to (1) better prices obtained from sale of coupes (2) a higher revenue derived from grazing on account of the introduction of new grazing rules and (3) larger sales of bamboos in Bhandara and Bilaspur. In South Chanda Rs 55,450 was paid by the Alapalli lessee as a first instalment and in Balaghat Rs 19,821 by the Bergal Timber Trading Company against a sum of Rs 8,800 only in the previous year. The revenue from minor produce extracted by departmental agency shows a very large decrease owing to the discontinuation of grass operations but that by purchasers shows an increase of some Rs 6,000 on account of better prices obtained for grass and other produce principally in Nagpur-Wardha. This was counterbalanced by a decrease of Rs 10,033 in Balaghat on account of hurra. Of the total revenue 40 per cent was from major produce, 56 per cent from minor produce and 4 per cent from other sources.

Bilaspur shows a surplus for the first time since 1896-97, but the increase in revenue occurred under all heads which was mainly due to extension of roads and to the working of the forests up to their full normal yield.

230. The charges under A and B show a decrease of Rs. 30,262. The expenditure under A amounted to Rs. 2,57,876 or 41 per cent of the total and less than that of the previous year by Rs. 29,297 due chiefly to the inclusion in 1911-12 of the sum of Rs. 38,833 on account of grass operations. Of this 14 per cent was spent on roads, buildings and tanks against 11 per cent in 1911-12.

Expenditure under B amounted to Rs. 3,75,625 or 59 per cent of the total and was less than that of the previous year by Rs. 965.

- 231 The total amount of revenue outstanding was Rs. 17,605 against Rs 8,128 in the previous year.
- The outstandings due to the Department from contractors and disbursers amounted to Rs. 45,213 and the amount due by the Department Rs. 3,369 against Rs 55 606 and Rs. 3,048 respectively in the previous year.
- 233 The estimated value of timber and other produce in depôts fell from Rs 52085 to Rs 14,896 and of live and dead stock from Rs. 3,25,107 to Rs. 3,21,78.
- 234. The money yield per acre of Government forests during the year has been:—

Balaghat Re 0-3-11, Bhandara Re. 0-5-4, Bilaspur Re 0-2-7, North Chanda Re 0-3.7, South Chanda Re 0-4-5, Nagpur-Wardha Re 0-6-1 and Raipur Re 0-2.1, respectively.

235 The decreased outturn noted in the last chapter due to want of export facilities has again adversely affected the revenue from Balaghat, North Chanda and Bhandara Divisions, respective y

BERAR CIRCLE

236 The following statement compares the revenue and expenditure of the year with those of 1911-1912 and the average of the preceding five years:—

| Forest Year. | | | Revenue. | Expenditure. | Surplus | |
|--------------------|--------------------------------|-----|-----------|--------------|----------|--|
| 1912-1913 | | | 11,05,622 | 6,28,417 | 5 67 205 | |
| 1911-1912 | | ••• | 12,66 629 | 5,94, 114 | 5 42,315 | |
| Average of years i | 90 6-19 07 to 1910-1911 | | 9 30,461 | 4,96,591 | 4 33,870 | |

There was thus an increase over the previous year in revenue of Rs. 78,993, in expenditure of Rs. 34,103 and in surplus of Rs 44,890.

The percentage of surplus to gross revenue rose very slightly, i. e, from 46 7 to 47 4.

The operations for the supply of grass to the Bombay Presidency undertaken during the preceding year were extended over a portion of the year under report, and if the revenue (Rs 48,636) and expenditure (Rs 41,060) on account of these transactions be omitted from both sides, the total revenue from normal sources was Rs. 11,46 986, the expenditure Rs. 5,87,357 and the surplus Rs. 5,59,629; the percentage of surplus to gross revenue being 48.8.

Melghat where the restrictions introduced on the exploitation by purchasers in the new reserves caused a considerable falling off under most heads of revenue. The general increase, excluding the Bombay grass supply, was mainly due to that under the head of fodder grass and grazing consequent on the general scarcity of fodder due to short rainfall which caused a demand on the forests even in excess of the demand in the previous year. There was a decrease under timber removed owing to the drop in Melghat owing to the restrictions in the new reserves, while under fuel there was a substantial rise principally in Amraoti, Akola and Yeotmal. Under bamboos there was a considerable drop owing mainly to the difficulty experienced by bamboo exporters in Betul in getting wagons on the railway, while under miscellaneous minor produce the increase is due principally to Nimar and Betul where the competition for Rusa grass leases was strong.

- 237. The expenditure under Conservancy and works was Rs. 2,77,075 or 44 per cent of the total, an increase of Rs. 18,652 over that of the previous year. The principal increase was due to the operations for the supply of grass to Bombay Presidency (Rs. 5,599), remuneration for the collection of the increased revenue (Rs 4.312), communications, buildings and tanks and wells (Rs. 12,826).
- 238. Expenditure under Establishment was Rs. 3,51,342 or 56 per cent of the total an increase of Rs. 15,451 over that of the previous year. The increase is fartly due to the promotions and increments obtained in both the superior and sub-release services and partly to the extension of travelling allowance in the subordinate staff
- 239 The outstandings on account of revenue at the end of the year amounted to Rs 18,537, an increase of Rs. 1,099, as compared with 1911-1912, due to outstandings on leases for minor produce in Mclghat.
- 240. The outstandings due by contractors and disbursers stood at Rs 41 102, a decrease of Rs 20 575 over the last year's figure which is due to the adjustment of advances made to the contractors who supplied grass to Bombay.
- 241 The estima ed value of live and dead stock at the close of the year was Rs 2, 4509, sho ving an increase of Rs. 10,282 in favour of the year under report owing to the value of new buildings and furniture purchased

The following statement shows the percentages on the total revenue of the revenue obtain d from various sources and of the expenditure on various works of improvement and on establishments:—

| | | | Am unt | Percentages on total revenue. |
|---|---------------|------|----------------------------|-------------------------------|
| | | | I S | |
| Total revenue | *** | - \ | 11 4 5 ,98 5 | |
| Total expenditure to revenue | 144 | | 5,87,357 | 512 |
| Expenditure A to total revenue | *** | •••] | 2,36,015 | 205 |
| Do. B do | ••• | - [| 3,51,342 | 30 б |
| Surplus to total revenue | *** |) | 5,59,629 | 488 |
| Value of free grants . | 4#1 | | 1,91,510 | 167 |
| Percentages of total revenue obtained from- | | } | | |
| (1) Major produce (timber and fuel) | 919 | | 3,04,737 | 266. |
| (2) Bamboos | | | 65,431 | 5'7 |
| (3) Grass and grazing | ••• | | 6,28,56 5 | 548 |
| (4) Other minor produce | 410 | ••• | 98,220 | 8.8 |
| (5) Miscellaneous | 444 | | 50,033 | 4'4 |
| Percentages of total revenue spent on- | | | | |
| (1) Roads and bridges A VII (a) | 144 | •- | 31,924 | 2.7 |
| (2) Buildings-A-VII (b) | . ** | | 31 428 | 27 |
| (3) Tanks and wells—A-VII (c) | *** | ••• | 14,624 | 1,3 |
| (4) Fire protection—A-VIII (f) | *1* | | 33,69x | 2.8 |
| (5) Other works-Cutting back operation | ns A-VIII (4) | | 16,958 | 1'4 |
| (6) Pay of all establishment | ••• | | 2,86,675 | 24'9 |
| (a) Conservator | *** | | 18,366 | r 6 |
| (b) Superior Officers | *** | | \$1,173 | 7'07 |
| (e) Subordinate establishment | *** | | 1,35,547 | 11.8 |
| (d) Office establishment | •• | 1 | 49 740 | 4'3 |

CHAPTER IV.

ADMINISTRATION.

NORTHERN CIRCLE

243. Charge of the Circle—The charge of the Circle was held by Mr. M Hill, till and May 1913, and from 3rd May 1913 by the writer of this

report.

244 Changes in the Constitution of Divisions—Oxing to the unwieldy size of the Mandla Division on the one hand and the very small size of the Naisinghpur Division on the other, the latter Division has been amalgamated with the Jubbulpore Division, under the name of the Jubbulpore-Narsinghpur Division. The Dhannahi Range which actually forms part of the Mandla Ci il District but was hitherto included in the Jult ulpore Division was amalgamated with the Mandla Di ision which was then divided into two Divisions, corth and South Mandla These changes in the constitution of the three Divisions were effected on 1st April 1913

Two ranges of the Mandla Division were also broken up into four charges, Dindori into I indori and Karanjia, and Shahpura into Shahpura and Saristal, with effect from the same date.

- 245 In the present report, however, the figures for the Mandla Division as it previously existed have be n shown against Mandla and those for the Jubbulpore Division as it existed before, together with those relating to Narsinghpur, have been shown against Jubbulpore-Narsinghpur, to avoid complications
- 246. Changes in Gazettea Officers The changes which occurred during the year among gazetted officers are as follows:—
- Imperial O'l cers Mr. R M Williamson, Deputy Conservator of Forests, was transferred as Officiating Conservator of Forests to Assam and was relieved of the charge of the Poshangabad Division on 3rd May 1913 by Mr. L. Mason, Assistant Conservator of Forests who was transferred from the Berar Circle, having been formerly attached to this Division Mr. S. L. Kenny, Deputy Conservator of 'orests, was in charge of the Mandla Division, as it originally existen, up to 31st March 1913, and of the South Mandla Division thereafter
- Mr D. O Witt, Deputy Conservator of Forests, was on privilege leave for 3 months from 2nd April 1913 on which date he was relieved of the charge of the Saugor Division by Mr. C. M. Harlow, Assistan Conservator of Forests, who was transferred from the Hoshan gabad Division but was previously attached to the Saugor Division.
- Mr. R. T. Jenkin, Assistant Conservator of Forests, joined the Imperial Forest Service on 24th December 1912, reported himself at Saugor on 29th December 1912 and was attached to the Hoshangabad Division from 26th March 1913 to the end of the year.
- Mr. H. C. B. Jollye, Assistant Conservator of Forests, joined the Imperial Forest Service on 5th December 1912, repo ted himself at Jubbulpore on 9th December 1912 and remained at ached to Mand'a from 22nd December 1942 to the close of the year.
- 247. Provincial.—Rao Bahadur S. G. Paranipe, Extra Deputy Conservator of Forests, was in charge of the Jubbulpore Division up to 31st March 1913 and thereafter of the Jubbulpore-Narsinghpur Division.

The three months' privilege leave granted from 1st May 1912 to Mr. W. G. J. Peake, Extra Assistant Conservator of Forests, in charge of the Damoh Division, covered the month of July 1912 during which the charge of the Division was held by Mr. V. C. Bhagwat, Extra-Assistant Conservator of Forests, who was then transferred to the Mandla Division 10 which he remained attached up to 27th June 1913, after which he was transferred to the Yeotmal Division in the Berar Circle.

- Mr. Faiz Bakhsh, Extra-Assistant Conservator of Forests, on transfer from the Southern Circle was attached to the Chhindwara Division from 14th January 1913 onwards.
- Mr. P. Shankarnath, Extra-Assistant Conservator of Forests, was in charge of the Narsinghpur Division up to 31st March 1913, and of the North-Mandia Division thereafter.
- Mr. C. V. Sarwate, Extra-Assistant Conservator of Forests, on transfer from the Chhindwara Division was attached to the Saugor Division from 15th October 1912 onwards
- Mr. Nazir Abbas, Probationery Extra-Assistant Conservator of Forests, was appointed to the post substantively on 18th September 1912. He was attached to the Hoshangabad Division, and on expiry of his two months' privilege leave on 23rd November 1912 his services were placed at the disposal of the Bhopal State.
- Mr Shyam Sunder Lal, Probationery Extra-Assistant Conservator of Forests, and appointed substantively to the post on 18th September 1912, continued on foreign service in the Indore State.
- 248. Ringers' Course—Of the two students who were deputed of training for the Rangers' Course for 1911-13 at the Dohra Dun Imperial Forest College, Deputy Ranger Lakshman Rao, of the Hoshangabad Division, who in 1909 had passed, by the Higher Standard, the Balaghat Forest School Examination passed with honours, and stood first in the order of merit and obtained no less than five medals. The second student passed by the Lower Standard.

Two stipendiary students were selected for that course for 1913--15. One student is now under training for the course for 1912-14.

249. Balaghat School Training.—Of the six students (five subordinates and one private stipendiary student) selected for training at the Balaghat Vernacular Forest School for the course for 1912-13, five passed by the Higher and one by the Lower standard and one, a subordinate, lailed.

Two subordinates, one from Jubbulpore and the other from Chhindwara, had to come back from the school owing to their inability to follow the course.

Three subordinates and one private stipendiary students have been deputed for training for the current session.

- 250. Office Inspection—Six Divisional Offices were inspected during the year by Mr. Hill, vis., all except the Seoni and Chhindwara Divisions.
- 251. Forest Inspection.—Inspection Notes showing the results of inspection of forests in four Divisions, viz., Jubbulpore, Danoh, Saugor and Hoshangabad, by Mr. Hill were submitted to the Chief Conservator of Forests.
- 252. Punishments.—The number of subordinates who were punished during the year is as follows:—

One Forester on being prosecuted was imprisoned, 39 Forest Guards and 1 orderly were dismissed; 1 Deputy Ranger, 1 Forester, 16 Forest Guards, 1 Orderly and 3 Range Moharrirs were degraded; 2 Foresters, 79 Forest Guards, 1 Mahawat, 1 License Vendor, 1 Grass Moharrir and 6 Orderlies were fined; and 2 Rangers, 1 Forester, 12 Forest Guards and 2 Clerks were suspended. The total number of subordinates punished was 170 or 15:40 per cent against 156 or 14:88 per cent during the previous year. The percentage of punishment in the Chindwara Division was extremely high.

253. Subordinate Service.—The Divisional Forest Officers on the whole speak well of the work of the subordinate establishment. The names of the following Subordinates have been especially noted for good work. Ranger Govind Rao Sapre, Deputy Ranger Wahid Khan and Ram Ratan of Jubbulpore, Rangers Mohamad Hanif and Bhote and Deputy Ranger Ahmad Karim of Hoshangabad and Ranger S. J. Chati of Chhindwara.

254. Office Establishment.—As regards the office establishment it is found practically impossible to attract good men for a pay of Rs. 20 and more than half the total number of posts are of Rs. 20 and under. The proportion of low-paid posts to higher paid post seems to call for some alteration.

The Divisional Forest Officers, Jubbulpore and Chhindwara, make special reference to the good work of their Head Clerks

As reg rds the Conservator's Office the permanent Superintendent, who was on combined leave, refred on it valid pension on 19th May 1913. The work of the office, as a whole was good and the Officiating Superintendent (now confirmed) Ram Charan I al, and of the Accountant (now Assistant Superintendent) P. Mukhopadhya, and Clerks, Mohamu ad Mohfazul Flarim and Lalji Sahadeserve special mention.

- 255. Health -- The year on the whole was a healthy one.
- 256. Relation between Forest and Revenue Defartments—The relations between the Forest and Revenue Departments were throughout satisfactory.

SOUTHERN CIRCLE.

- 257. The charge of the Circle was held by Mr. H. H. Haines, Conservator of Forests, upto 10th April 1913 when he proceeded on combined leave. He was relieved by the writer of the report who held charge of the Circle upto the close of the year.
- 258. The following changes occurred during the year among gazetted officers----.
- Mr. Townshend, Deputy Conservator of Forests, was transferred from the Berar Circle and was attached to the Raipur Division as Working-Plan. Officer from 24th January 1913.
- Mr. Bell, Deputy Conservator of Potests was transferred from the Berar Circle and was attached to the North Chanda Division as Working-Plans Officer upto 1st March 1913 when he assumed charge of the Livision from Mr. Langhome, Extra-Assistant Conservator of Forests, who was transferred to the Berar Circle.
- Mr. Benskin, Assistant Conservator of Forests, was attached to the Direction Division from 21st September 1912 to 4th December 1912 when his services were placed at the disposal of the President, Forest Research Institute at Dehra Dun.
- Mr. Taiz Baklesh, Extra-Assistant Conservator of Forcets, proceeded on three months' leave from the 2nd October 1912 and on expiry of his leave was transferred to the Northern Circle.
- Mr. Cole, Extra-Assistant Conservator of Forests, proceeded on three months' leave from 17th March 1013, on expiry of which he was transferred to the Berar Circle. He was relieved by Mr. Narsingh Rao, Extra-Assistant Conservator of Forests, who was transferred from the Berar Circle and who held charge of the Division till the end of the year.
- Mr. Anthony, Extra-Assistant Conservator of Forests, was transferred from the Berar Circle and attached to North Clanda I vivision from 231d June 1913.
- Mr. Laiq Singh, Extra-Assistant Conservator of Forests, proceeded on three months' privilege leave from 7th March 1913, after expiry of which he was transferred to the Berar Circle.
- Mr. McDonald, probationary Extra-Assistant Conserv: tor of Ferests, was transferred from the Berar Circle and posted to Chanda Division from 18th December 1912.

Two stipendiary students were sent to the Imperial Forest College, Dehra Dun, for the Rangers' Course and two stipendiary students returned from the Dehra Dun College with Higher Standard Certificates.

In the Raipur Division one Ranger was placed under suspension pending his prosecution which was undecided at the close of the year.

- The pay of the clerical establishment, especially in the lower grades, is too low to obtain men with sufficiently good educational qualifications. Two men were sent up to the Remington Type writing Class and Conservator notices a tendency for clerks when they have least their work in the Forest Department to leave for better paid appointments in other offices. It is difficult to refuse applications from clerks to leave to improve their prespects on the only way of retaining them is to offer a somewhat higher initial salary.
- 260 Two Foresters, 24 Forest Guards, 2 Clerks, a Mahout and a Khalasi were dismissed; 4 Foresters, 17 Forest Cuards and 2 Dange Clerks were reduced 3 Forest Cuards and a Range Clerk were suspended and a Forest is anger, 5 Foresters and 68 Forest Guards were fined. The proportion of punishments compared with the total strength was 143 per cent.

Thirteen Forest Guards, I Orderly and I Range Clerk on the permanent establishment died during the year,

- 261. Inspections.—The Inspector-General of Forests inspected the forests of the South Chanda Division with the Chief Conservator of Forests who also toured through the North Chanda Division. The Conservator of Forests accompanied the Inspector-General of Forests for part of his tour and also toured in the forests of the Bhandara and Nagpur-Wardha Divisions.
- 262. The relations between the Forest and Civil Departments have been cordial throughout the year except perhaps in the Balighat Dietrict. The thanks of the Conservator are due to Mr. Clarke, the present Deputy Commissioner, who has satisfactorily disposed of several questions in dispute.
- were examined by a Board in February 1913 consisting of the Direct of and three Deputy Conservators. Thirteen students passed by the Higher Standard, thirteen by the Lower Standard and three failed to get a certificate of a ykind; the State students showing up badly as only two out of nine succeeded in reaching the Higher Standard and two failed to get certificates. Thirty students were admitted during the year, of which to were from Native States. One State and three Government students were sent back as they could not follow the course and one student absconded. The Director complains that the present students are ill educated which makes it difficult for them to follow the course. The best officers have already been through the School course and it is getting difficult now to pick men from the present subordinate staff who are up to a sufficiently high standard of intelligence and education to benefit by the tuition. We shall have to wait till some of the older Deputy Rangers and Foresters retire when their places can be filled by younger and better educated men who will in the ordinary way go through the course. The Instructor Mr. Avasia, and Assistant Instructor, Ranger Sathe, have as usual done very good work.

BERAR CIRCLE.

- 264. The charge of the Circle was held throughout the year by the writer of this report.
- 265. Messrs. Chatterji and Inamati Shamarao held charge of Amraoti and Akola Divisions throughout the year.

In Melghat Mr Bartlett held charge from 1st July to 10th August 1012 when he went on six months leave. Mr. Danbar-Brander held charge of the Division till the end of the year.

In Buldana Mr. Pandurang Narayan was in charge from 1st July to 2nd August 1912. He was relieved by Mr. Townshend who held charge of the Division till 20th January 1913 when he was transferred to the Southern Cucle and Mr. Parsons who relieved him held charge till the end of the year.

In Yeotmal the Division was held by Mr. Malcolm till 20th March 1913, when he undertook the preparation of the Working-Plan of the Division, being relieved by Mr. Thompson who held charge of the Division till the end of the year.

In Nimar Mr. Martin was in charge till 1st August 1912, when he proceeded on 1 year and 2 months combined leave from 21d August 1912 and Mr Mason held charge of the Division upto 19th February 1913 when he was relieved by Mr. Bartlett who remained in charge till the end of the year.

In Betul Mr. Thompson held charge of the Division till 11th September 1912, when he proceeded on 3 months, privilege leave, handing over charge of the Division to Mr. Pandurang Narayan. On return from leave Mr. Thompson again held charge of the Division upto 11th March 1913 when he was transferred to Yeotmal Division, handing over charge to Mr. Langhorne who remained in charge upto 21st June 1913. On his transfer to foreign service Mr. Cole held the charge till 30th June 1913.

Mr. Donald was Working-Plans Officer of the Melghat Division till 28th February 1913, when he was transferred to the Forest College at Dehra Dun. Mr. Masom was placed in charge of the work up to 25th April 1913 when he was transferred to the Hoshangabad Division.

Mr. Narsingrao who was attached to Yeotmal Division was transferred to Bhandara Division in March and Mr. Mac Dona'd who was attached as a probationer to the same Division was transferred to Chanda Division in December last.

Messrs. Laiq Singh and Anthony received and handed over the duties of attached officer in Nimar Division on the 16th June 1913 on the latter officer's transfer to Chanda Division.

266. All Divisional Officers worked well during the year. Mr. Bartlett in Nimar had an attack of sun-fever at the beginning of the hot weather and could do little or no touring afterwards which was unfortunate in a large Division as Nimar. Mr. Dunbar-Brander very soon obtained a grasp of the somewhat difficult conditions through which the Melghat is passing.

267. Three stipendiary students returned from Dehra Dun College with Higher Standard Certificates. Of these N. Iyangar passed with honours and stood third on the list.

Two Deputy Rangers were deputed to Dehra Dun College for the Rangers' Course.

268. Seven Foresters were deputed to Balaghat Forest School. Of the seven students deputed last year all obtained certificates, three by the Higher Standard.

269. The following statement shows the number and nature of punishments awarded during the year:—

| Rani | Κ, | | Dis- missed. | Sus. pended. | Re- duced. | Fined. | Prose- cuted. | Services dispensed with. | Total. | Total strength of establish- ment. |
|---|-------|---|------------------------------|--|-----------------------|-----------------------------------|----------------------|--------------------------------|------------|---|
| Rangers Deputy Rangers Foresters Forest Guards Watchers Pass Vendors Naka Karkuns Clerks Orderlies Mahouts Jamadars | Total | 01. 10. 10. 20. 20. 20. 20. 20. 20. | 28 3 3 3 3 :: | ;; a; ;; a ;; ;; ;; ;; ;; ;; ;; ;; ;; ;; | 7 | 15 70 14 4 1 6 | | 12 4 4 | 191 191 | 2,162 |

Thus a percentage of 16.4 of the total strength of the establishment was punished during the year.

Two Rangers, 3 Deputy Rangers, 3 Guards and one Clerk retired during the year.

One Deputy Ranger, 22 Guards, 8 Watchers. 4 Pass Issuers, 3 Clerks and 3 Orderlies resigned the service during the year.

- 270. On the whole the subordinate establishment worked fairly well during the year, but there is great room for improvement especially among the old hands many of whom are nonentities even if not actively mischievous. It will take some years to eliminate these men as they are generally too shrewd to commit any tangible offence. The remarks made in paragraph 241 of the Report for 1911-1912 may be repeated again this year. The pay given in the lower grades is barely a living wage and does not attract a suitable class of men. Forest Guards generally have a very brief service and the number who serve long enough to earn their retiring gratuity is insignificant.
- 271. The clerical establishment with a few exceptions worked well. There were difficulties in Amraoti which were improved by a change of Head Clerks, while in Buldana even more difficulty is experienced in getting clerks than in other Divisions. The pay and prospects of the lower grades in this service require improvement everywhere.
- 272. Thirteen Guards died during the year. The season generally was a healthy one due doubtless to its dryness. The Divisional Officer, Melghat, attributes the good health of his establishment very largely to the distribution of an adequate supply of quinine tabloids.
- 273. The Conservator inspected all the Divisional Offices except Amraoti and Yeotmal.
- 274. All Divisional Forest Officers report that they have inspected all Range Offices in their Divisions except the Divisional Forest Officer, Yeotmal, who has given no information on this point.
- 275. The relations between the Revenue and Forest officials everywhere were good, except in the Melghat where some friction occurred with the subordinate Revenue officials. A position of some difficulty was created owing to the antagonism of the Tahsildar, but since the close of the year the official at fault has been transferred by the Commissioner, and it is hoped that the difficulties in the settlement of the Melghat will not occur again with an officer of greater experience and tact.

CHAPTER V.

GENERAL.

NORTHERN CIRCLE,

Forest Village.

276. Two new forest villages were sanctioned during the year in Mandla, one of these being for settlement by Baigas from the Baiga Chak, as they wish to abandon their Bewars and take to regular cultivation.

One forest village was started in Saugor, three in Chhindwara and three in Hoshangabad. In Hoshangabad the villages have a general dislike for road work, more especially the Korku, and the Divisional Forest Officer does not recommend the further steady employment of the forest villagers on this work. The kodon and kutki crops, on which the Korku so largely depend, was a total failure in the forest villages in that Division and this necessitated the grant of further taccavi advances and the postponement of the recovery of previous advances.

277. Mulguzari Forests,—In Mandla three malguzari villages were notified for protection under the malguzari rules. In Chhindwara 111 such village forests were brought under special protection under the orders of the Deputy Commissioner.

- 278. Patch Cultivation.—In Mandla one village was deserted during the year. In Chhindwara arrangements have been made for the relinquishment of patch cultivation on the death of the present occupiers and 30 plots, aggregating to 403 acres in that Division, have been relinquished during the year.
- 279. Shooting Permits.—407 shooting permits were issued by Divisional Forest Officers during the year against 427 in the previous year.
- In Seoni 12 cases of poaching occurred during the year. Out of four cases prosecuted, convictions were obtained in two. Six cases were compounded and two were handed over to the Police.
- 280. Elephants.—There were six elephants at the close of the year, one for the Conservator and one for each of the five Forest Divisional Officers of Mandla, Jubbulpore, Saugor, Hoshangabad and Chhindwara.
- 281. Arboriculture.—Only four Divisional Forest Officers had opportunities of making observations on arboriculture. The Divisional Forest Officers Jubbulpore, Damoh and Saugor, are on the whole satisfied with the work. The Divisional Forest Officer, Sconi, observed that a large number of road-side avenue trees, chiefly Albizzia (Siris) and Pipal along the Jubbulpore-Nagpur road were badly infected with lac which is causing much damage to and disfigurement of the trees and recommends the sale of lac on road-side avenue trees to lac contractors being discouraged.
- 282. Almospheric Soil Moisture.—As regards experiments in connection with the relation between forests and the retention of atmospheric and soil moisture, the subject is still under consideration.

SOUTHERN CIRCLE.

283. For est Villages.—In Balaghat two ryotwari villages were taken over by the Department, the total amount of compensation paid being Rs. 5,827.

In Bilaspur two new villages were established and one of the existing villages abandoned. In South Chanda six villages were acquired and three abandoned, and in Raipur two malguzari villages were acquired by exchange. There were 281 forest villages at the close of the year.

284. Taccavi.—At the beginning of the year there were outstandings amounting to Rs. 19,550; during the year Rs. 9,356 was advanced as loans to forest villagers and Rs. 11,530 were recovered. Sums amounting to Rs. 97 were written off as irrecoverable and there was a balance at the close of the year of Rs. 17,279.

These taccavi advances are necessary to prevent forest villages being abandoned. An application was made during the year to write off a sum of Rs. 3,160 outstanding in the Lormi Range of the Bilaspur Division against certain villagers who formerly practising shifting cultivation were induced to settle down permanently. Sanction was received to write this off after the close of the year. The amount may be regarded as a set-off against successful fire protection in the Lormi Range which has been of great benefit to the forests. There is a great tendency for these tribes to stray off to Native States to practise shifting cultivation which has also been in vogue for many years in zamindaris adjoining Government forests but is gradually being suppressed.

- 285. Eight prospecting licenses and three mining leases were issued during the year, besides a mining lease for coal over 240 acres of Government forests in the Haveli Range of the North Chanda Division.
- 286. One hundred and seventeen shooting permits were issued during the year and the following animals recorded as killed by permit holders, etc.

Tigers 41 Bears 29 Sambhar 48 Panthers 38 Bison Chital 3 Wild dogs 50 Barasingha 12 Nilgai and other deer. 72 Six wild dog's pups were caught and presented to the Maharaj Bagh in Nagpur where they died.

There are many complaints of lawful poaching of game particularly by malguzars who sit up in the hot weather over water to shoot any wild animal that comes down to drink. As there are no crops on the ground at this time of year gun licenses might be given on condition that gams were to be deposited in the kutchery during April, May and June when owing to the want of natural water pools wild animals run a great risk of being exterminated. This sitting up over water usually takes place outside the forest where the Forest Act does not apply. It is hoped that the orders recently issued for a close time for game will have some effect in preventing this indiscriminate poaching.

The Raipur Forest Officer reports that the Kamars create great havoc among game with their bows and arrows sitting up over water in the reserved forests in the same way in the hot weather; numerous carcases of animals have been discovered with arrows sticking in them including two bison. This accounts for the few game to be found in the forests of this Division.

Bison and other large game suffered severely from rinderpest in the South Chanda Division and though this complaint attacked cattle in North Chanda, it does not appears to have spread to the wild animals.

- 287. The reboisement of Telankheri (Seminary) Hill continued under the Divisional Forest Officer, Nagpur-Wardha, who however can only give his personal attention to it in the rainy season. The method of sowing seeds on mounds of earth appears to be the one best suited to soil and climatic conditions, the former tending to get water logged in the rainy season. On very rocky ground these mounds were erected over pits varying from two to three feet deep. The common nim tree appears to be the hardiest of any in Nagpur and seedlings of this species stand transplanting when young. Anjan (Hardwickia) also does well from seed but owing to the extraordinarily rapid growth of its tap root in the first month will not bear transplanting.
- 288. Little is reported regarding roadside arboriculture. The Divisional Forest Officer, Raipur, states that delay in putting up gabious after planting, frequently leads to the plants being browsed down, after which their protection from cattle becomes a farce.
- 289. Three civil cases were brought against the Department by a purchaser who claimed that he had been cheated in the sales of coupe and grass bits which were sold to him by auction. These cases were pending at the close of the year but have since been dismissed by the Court. The thanks of the writer are due to the Standing Counsel, Mr. G. P. Dick for his able defence of the interests of Government.

BERAR CIRCLE.

villages in Kinwat is in progress, there were 324 villages established as compared with 315 in the previous year. In Nimar six old sites were re-occupied and apparently the staff are learning the necessity of treating the people more reasonably than they used to do. In Melghat 12 new sites were selected as suited for settlement when occupants are available. At present a very large part of the population of the Melghat Taluq are in a state of uncertainty as to their real wishes and intended movements. Some have migrated from the reserves into the 1yotwari, and others vice versa. Some have left the district altogether and of these some have returned The Korku has no attachment to the land when it consists of red soil and migrates on the whim of the moment or for some trivial complaint. He requires a little black soil, freedom to trade in forest produce and tactful handling when his habits become more settled. As the Department depends entirely on the Korkus for the exploitation of all forest produce in the Melghat, the early completion of the Working-Plan to lessen the restrictions necessarily imposed in the new reserves and to regularize their working is very necessary.

- The rates for forest produce for household requirements for consumption in the ryotwari area of the Melghat were revised in consultation with the Revenue Authorities, very low rates being fixed to carry out the orders of Government that the management of the newly constituted reserves should cause as little inconvenience as possible to the people.
- 292. It Betul two malguzari villages, Tirmahu and Sonaghati, were declared as requiring special protection and one village, Pandol, was released from protection.
- 293. Two-bundled and twenty four shooting permits were issued during the year against 201 in the previous year. The reports of animals shot are not complete, but 3 bison, 49 sambar, 16 chital and 191 other deer are reported to lave been shot.

In Akola 62 special permits were issued to give effect to the Government orders for the destruction of pig and nilgai, 111 pig and 99 nilgai being killed in that district. In all 182 nilgai and 447 pig are reported to have been killed.

In the Amraoti Division a very large number of licenses issued in the neighbourhood of Amraoti are believed to be used for the purposes of trade in meat and hides of game. The number must be restricted in future to check abuse and to prevent the total extinction of all game in the neighbourhood of Amraoti where shooting within easy reach is a valued privilege of many subordinate officials.

- 294. The Agricultural Department continued the operations for catching the wild cattle in Bhongaon, but only 4 head were captured. A few doe chital were shot in the same reserve, but it will be necessary to enlist the assistance of Phansi Pardis if any real impression is to be made on the numbers of these animals.
- 295. Elephants —All the elephants in the Circle are in good condition. The Betul Divisional elephant is unreliable and sanction was received at the end of the year to dispose of her.
- 296. Roadside Arboriculture.—The Divisional Officer, Amraoti, reports that the replacement of babul by nim as an avenue tree is being continued and recommends again the adoption of mango and sissoo as suitable trees. In Buldana it is reported that the planting of trees does not receive the attention it deserves, while numerous gaps are being made in roadside avenues by the removal of trees to supply fuel for steam rollers. Reports from other Divisions are lacking on this subject

H. H. FORTEATH,

Conservator of Forests, Northern Circle.
F. TRAFFORD,

Conservator of Forests, Southern Circle.
A. W. BLUNT,

Conservator of Forests, Berar Circle.

Review of the Forest Administration Reports of the Northern, Southern and Berar Circles of the Central Provinces for the year 1912-13.

At the close of the year the total area of forest under the control of the Forest Department was 20,572 square miles as compared with 21,038 square miles at the beginning, or a net decrease of 466 square miles:—

| | | | Area on 1st July 1912, | Area on 30th June 1913 |
|-------------------|-------------------|-----|---------------------------|---------------------------|
| | | | Sq. miles. | Sq. miles. |
| a | (A Class | ••• | 15,689 | 15,696 |
| Central Provinces | " B-I Class | *** | 1,924 | 1,496 |
| | A Class | *** | 2,154 | 2,155 |
| _ | В " | | 84 | 84 |
| Berar | [™] ∫c " | *** | 1,153 | 1,117 |
| | lp " | 4+4 | 34 | 24 |
| | | | 21,038 | 20,572 |

The area of the Central Provinces and Berar being 99,874 square miles the percentage of State forest to the whole of the Province is 20'6 or roughly one-fifth. The additions amounted to 30 square miles and were chiefly due to areas obtained by exchanges made for the simplification of boundaries, recalculation of areas and afforestation. The reduction in area amounted to 496 square miles, due mostly to the disforestation of B-I Class forest in Nimar (265 square miles) and Betul (108 square miles) for ryotwari Settlement, by exchanges (34 square miles), recalculation of areas, and other disforestments.

Satisfactory progress was made in regard to the disforestation of small blocks of C Class forest in Berar. By removing the small areas from the control of the Forest Department not only is the area of grazing land for the villages in the vicinity increased, but difficulties in regard to administration are removed and trouble to the people avoided.

2. The area finally settled during the year amounted to 14.5 square miles.

Settlements.

In all cases, the Deputy Commissioners of the districts concerned were appointed to act as Forest Settlement Officers, so that no special expenditure was incurred.

Nineteen square miles for the Province as a whole were undergoing Settlement at the close of the year (Northern 6.14, Southern 5.49 and Berar 7.49). An area of 32 acres in North Chanda which has been shown as under Settlement for several years was excluded this year as it was decided to be undesirable to afforest the area in question. In addition to the above, the provision of the Land Acquisition Act were resorted to in order to acquire an area of 3.55 acres in the Betul Division to rectify a boundary, but proceedings for the Settlement of the plot were not instituted before the close of the year. Proceedings under the Land Acquisition Act were also started for the acquisition of various plots in Yeotmal and Akola with the object of creating them reserved forests.

3. The total expenditure on demarcation during the year was Rs. 23,585

Demarcation.

against Rs. 19,309 in the preceding year. Exchanges of Government forests with malguzari areas necessitated 43 miles of new demarcation at a cost of Rs. 252. In addition, 78 new pillars were erected, 1,169 pillars reconstructed and 511 pillars dismantled at a total cost of Rs. 381, the total expenditure on new works being Rs. 933. The work done during the year comprised the thorough repair of all pillars over 4,008 miles of boundary line, the checking with the survey maps of 3,775 miles and the clearance, without reference to fire-protection of 8,953 miles: 23,289 pillars,

10,351 'worlies' and 279 'gotas' were also repaired. Progress was made, more particularly in Saugor in the simplification of boundaries, several exchanges of land with malguzars being made with this object during the year. The total length of the boundaries at the close of the year was 36,065 miles, the percentage of artificially demarcated boundaries being a little less than that in the previous year, 90 2 against 90 8. The length of natural boundary was 3,362 miles, and 170 miles of the new reserves formed in the Melghat were still to be demarcated at the close of the year.

The five year schemes for the up-keep of boundaries were sanctioned for the Jubbulpore, Damoh, Hoshangabad and Chhindwara Divisions. The Saugor scheme has been kept pending the revision and simplification of boundaries now in progress. For the rest of the Province as a whole the schemes were worked up to except in the case of the North Chanda and Raipur Divisions. The Conservator should impress on the Divisional Forest Officers concerned the importance of the matter. The Conservator of Forests, Southern Circle, reports that the condition of the boundaries in the Raipur Division leaves a great deal to be desired and may necessitate the employment of Surveyors in the following cold-weather.

- 4. The work carried out in Berar by the Survey of India, Party No. 6, comprised 124 square miles in Yeotmal, 97 square miles in Akola and 154 square miles in Buldana, with interior details on the 2-inch scale and boundary surveys on the 4-inch scale of 380 and 605 linear miles in Akola and Buldana, respectively. In the Melghat Division Rs 699 were spent on surveying the interior detail of 44 forest villages and a number of local surveys of forest villages was carried out in various Divisions of the Southern Circle.
- 5. The total expenditure on the constitution of State forests was Rs. 60,508

 Constitution of State forests

 as compared with Rs. 41,584 in 1911-12, the Northern Circle being responsible for the entire increase, vis.,

 Rs. 28,690 against Rs 8,603 due to the purchase of Indpura and Singora malguzari villages, Hoshangabad Division, at a cost of Rs. 20,000. The compensation paid to the Melghat Rajas for forest rights amounted to Rs. 15,557 as usual.
- Working-plans.

 Working-plans.

 Wardha, South Chanda, Nimar and Buldana Divisions were completed during the year but are still in the press, while that for the Chhindwara Division was prepared and finally submitted by the Divisional Forest Officer by the end of the year, and received by the Chief Conservator after the close of the year. On account of Mr. Donald's deputation to the Imperial Forest College and there being no officer available for the work much progress could not be made with the working-plan for the Melghat Division, while the Akola plan is still under compilation. A beginning was made on the field work of the Yeotmal Working-plan. The revision of the Bilaspur Working-plan was completed during the year and the Local Government's orders on the special Revenue Officer's report have been issued since the close of the year. The work of revising working-plans for the Balaghat and Raipur Divisions continued to receive attention, but some delay is likely to be caused in both Divisions, more particularly in the latter owing to the maps of these forests not having been kept up to date. The field work on the working-plan for the Amraoti Division was completed during the year.

The Divisional Forest Officer, North Chanda, was appointed to revise the existing working-plans for the Division, but little progress has been made. The Conservator has represented that the supply of forest produce in this Division is almost twice the demand and that in view of possible disforestments for irrigation projects in the future the revision of the plan might be postponed for the present. A new working scheme for the Garhakota high forest of the Saugor Division was prepared and a rough scheme for the Khanat Sal forests of the South Mandla Division was also compiled.

From Form No. 11 it will be seen that of the total forest area of 20,572 square miles, working-plans have been sanctioned for an area of 8,191 square miles, excluding 4,416 square miles of this area regarding which revisions of plans are in progress. New plans are being made for 8,862 square miles, and are not considered necessary for 3,497 square miles: a large part of this area consists of the B-I Class forests which are reserved for the extension of cultivation and are ultimately to be disforested for this purpose. The provisions of existing working-plans were worked up to as far as possible, the chief exceptions being in the Seoni, Akola and Betul Divisions, where owing to absence of demand and inaccessibility of the forest, fellings were considerably in deficit. The provisions of the revised working-plan for the Bori Reserve in the Hoshangabad Division could not be followed again this year owing to there being no purchaser for the coupes.

The only regular preliminary working-plan report sanctioned during the year was that for the Melghat Division, while the necessity having arisen in the Seoni Division for the revision of the existing working-plan, data are being collected for a preliminary report. In the meanwhile, however, a scheme of fellings for the ensuing year was sanctioned provisionally.

Annual Plans of operations were drawn up and adhered to with few exceptions and without material deviations, save in the Mandla Division where collection of harra had to be undertaken departmentally owing to inadequate offers for the purchase of the leases.

7. The following table compares the amount and cost of the work on comcommunications. carried out in the three Circles during the year under review and 1911-12:—

| | | | New | works. | Rep | airs. | Total. |
|-----------|-----------|--------------|-------------------|----------|---------|--------|-----------------|
| Circle. | | Year. | Length. | Cost. | Length. | Cost. | Cost. |
| | | <u> </u> | Miles. | Rs. | Miles. | Rs. | Rs. |
| \$Y41 | (| 1912-13 | 290 | 20,674 | 864 | 6,312 | 26,986 |
| Northern | { | 1911-12 | 277 | 17,473 | 820 | 4,678 | 22,151 |
| Cautham. | (| 1912-13 | 95 | 23,881 | 1,751 | 14,507 | 38,388 |
| Southern | { | 1911-12 | . ¹ 53 | 20,506 | 1,740 | 8,996 | 29,502 |
| Berar | ς | 1912-13 | 132 | 20,862 | 1,544 | 11,062 | 31,924 |
| Derar | (| 1911-12 | 152 | 6,005 | 1,345 | 9,691 | r 5,69 6 |
| . | . (| 1912-13 | 517 | 65,417 | 4,159 | 31,881 | 97,298 |
| Tota | ս { | 1911-12 | 582 | 43,984 | 3,905 | 23,365 | 67,349 |
| | | Difference . | | 1 21,433 | | +8,516 | + 29,949 |

The expenditure incurred during the year 1912-13 rose by Rs. 29,949, the cost of new works and of repairs being increased by Rs. 21,433 and Rs. 8,516, respectively. The increase in expenditure was chiefly in the Berar Circle. In the aggregate 210 miles of regular cart roads, 55 miles of coupe and feeder roads, 18 miles of inspection and other paths and 234 miles of alignments with road traces were constructed at a cost of Rs. 61,765, Rs. 1,319, Rs. 384 and Rs. 1,949, respectively, the average cost per mile in each case being Rs. 294, Rs. 21 and Rs. 9 82 miles of the regular cart roads were constructed in the Northern Circle, mainly in the Hoshangabad, and Damoh Divisions, while in the Southern and Berar Circles 63 and 65 miles, respectively, were made, the Divisions in which most of this work was carried out being Balaghat, Bilaspur and Raipur in the former Circle and Buldana, Akola and Nimar Divisions in the latter.

A special grant of Rs. 50,000 was allotted to the Forest Department during the year for road works. Out of this amount the sum of Rs. 35,000 was made over to the Public Works Department for the construction of the Weinganga

causeway (South Chanda Division), Dhamtari-Sihawa road, etc. The balance of Rs. 15,000 being allotted to the Conservators, Northern and Berar Circles, for roads.

In 1913-14, Government allotted the following grants for road works:-

Rs.
15,000 Imperial grant.
*25,000 ,, ,,
40,000 Provincial grant.

The Imperial grant of Rs. 15,000 was divided equally among the three Circles, while the Provincial grant of Rs. 40,000 was allotted to the Circles as follows:—

| | | | | Rs, |
|-----------------|-----|-------|-----|--------|
| Northern Circle | | | ••• | 8,500 |
| Southern Circle | | | *** | 23,000 |
| Berar Circle | *** | | *** | 8,500 |
| | | Total | ••• | 40,000 |

As regards the Imperial grant of Rs. 25,000, Rs. 21,700 were allotted to Northern Circle for road works in the Hoshangabad Division and the balance of Rs. 3,300 was placed at the disposal of the Public Works Department for the same purpose. The extra grant of Rs. 13,500 referred to by his Conservator, Northern Circle, in his report is the Provincial grant of Rs. 8,500 plus the Imperial grant of Rs. 5,000 mentioned above.

Rs. 85,777, which exceeded that of the previous year by Rs. 11,308. The increase was shared by all Circles. Out of this sum Rs. 58,493 was spent on new works and Rs. 26,779 on repairs. Under new works there was an increase in each Circle, while under repairs all Circles, except Berar, showed a decrease. In addition to above, Rs. 180 in the Northern Circle and Rs. 325 in the Southern Circle were spent on pay of establishment, such as malis, etc. Good progress was made in almost every Circle in housing the subordinate staff, 68 per cent of the total outlay of Rs. 58,493 having been spent on this work. The Conservator, Berar Circle, however, observes that the housing of subordinates is still in a very backward state in some Divisions. The question of standard plans for Range Assistants' quarters was discussed in the Conservators' Conference held in June 1913 and an experiment to decide on a suitable plan is in progress. The problem regarding the housing of Forest Guards is somewhat difficult. It is essential that these subordinates should be provided with suitable accommodation, especially in unhealthy tracts, but, as the Conservator, Berar, points out, it is difficult to design buildings giving sufficient accommodation of substantial structure that are not unduly expensive. Rs. 12,800 or 22 per cent were spent on "Rest-houses", while other miscellaneous huts, etc., involved an expenditure of 8 per cent, or Rs. 4,683.

Out of the special grant of one lakh of rupees alloted to the Forest Department a sum of Rs. 40,000 was placed at the disposal of the Public Works Department for the construction of new buildings for the Forest School at Balaghat.

The principal works are -

The enlargement of the school building, new students' quarters and the construction of a hospital and more quarters for the staff.

9. The total expenditure on tanks, wells and other miscellaneous works during the year amounted to Rs. 36,202 as compared with Rs. 46,478 in the preceding year, the decrease occurring chiefly in the Berar Circle.

The amount spent on new tanks was Rs. 9,098 and on new wells Rs. 14,185, the expenditure on repairs being Rs. 3,073 and Rs. 3,956, respectively.

From the special grant of one lakh allotted to the Forest Department in 1913-14.

In the Northern Circle the last section of the Patesur Tank (Seoni Division) was completed. The Cheola Baleh Tank (Saugor Division) continued to leak but is reported to hold water during the year. The Padrai Tank in the same Division, however, was practically dry by January. In the Southern Circle, the bund of the Nagjhiri Tank (Bhandara Division) burst, it was repaired at a cost of Rs 3,461, the total expenditure amounting to Rs 6,440

In the Berar Circle, the Kaiwani Tank (Nimar Division) was completed, but the Deputy Commissioner remarks that it is reported to be a failure. Good progress was made in this Circle in the construction of new wells, 29 being completed during the year and 9 being under construction. The Deputy Commissioner, Amraoti, has called attention to the urgent need of more wells in forest villages and in grazing areas in the Melghat, and the question of improving the water-supply by means of wells should receive the careful attention of the Conservator.

In the Nimar Division, 19 temporary bunds were thrown across nalas to hold up water in anticipation of a greatly increased domaind for grazing during the hot weather. A similar bund was constructed in Yeotmal, the total cost being Rs. 710 It is not stated in how far the bunds served their purpose, but it would appear to be worthy of consideration whether more permanent bunds should not be constructed, as nalas closed in this manner are likely to form particularly suitable forms of tanks. In the Northern Circle, 7 wells were completed during the year and 9 were still under construction.

In the Southern Circle, 23 wells were constructed, 10 of these being in South Chanda Division and 5 in Balaghat Division.

The revision of the tank programme referred to in the review for 1911-12 is still under preparation, but it is hoped that it will be submitted to Government shortly.

The total outlay on roads, buildings, tanks, wells and miscellaneous works was Rs. 2,19,277, as compared with Rs 1,88,296 in the preceding year.

Forest offences.

10. The following statement shows how the offences of the year compare with those of 1911-12 and with the average of the past three years:—

| | N | lorther | n Carcle | : | s | outher | n Cırck | | , | Berar | Çırcle | | 1 | To | tal. | | l |
|-----------------------------------|----------------------|----------|----------|--|---------------------|----------|---------|---|----------------------|----------|----------|--|----------------------|----------|----------|-------|---|
| Nature of offence | Ayerage three years, | 1911-12. | 1912-13. | Increase or decrease as compared with 1911-13. | Aterage three years | 1911-12. | 1913 | Increase or decrease as compared with 1911-12 | Average three years. | 1911-12. | 1912-13. | Increase or decrease as compared with 1911-12. | Average three years. | 1911-12, | 1912-13. | 28 | Percent- age of total cases of 1912-13. |
| 1Injury by fire | 273 | 217 | 136 | -81 | 135 | 110 | 87 | -23 | 80 | 47 | 37 | 10 | 492 | 374 | 260 | E 14 | , a |
| 11 -Unauthor 1 z e d fellings. | 1,6 11 | 1,548 | 1,810 | 1 262 | 1,330 | 1,739 | 1,422 | -17 | 1,134 | 1,202 | 1,595 | +393 | 4.075 | 4,089 | 4.727 | +618 | 45 |
| III-Unauthor ize d | 1,084 | 975 | 1,455 | + 280 | 856 | 982 | 1,149 | + 167 | 1,287 | 2,168 | 2 676 | +508 | 4,227 | 4,125 | 5,080 | +955 | 48 |
| IV -Other offences. | 53 | 61 | 76 | няБ | 56 | 57 | 35 | -72 | ≱ 01 | ote | 485 | +265 | 310 | 338 | 596 | +258 | 5 |
| Total | ı | 2,801 | 3,277 | +476 | 2,380 | 2,488 | 2,593 | +f) O5 | 3,701 | 3,637 | 4.793 | +1,156 | 9,143 | 8 g s 6 | 10,663 | +1737 | 74 |

The cases of the year exceeded the average of the past three years by . 1,560 and those of 1911-12 by 1,737. Whilst it is satisfactory to observe that there was a decrease of 114 in the number of cases of "Injury by fire" due mainly to a favourable season and more adequate precautions, it is somewhat disconcerting to see the increase compared with 1911-12 under the other three heads:

Under "Unauthorized fellings", there was an increase of 262 cases in the Northern Circle and 393 in the Berar Circle. The increase in the Northern Circle occurred in all Divisions except Saugor, and is ascribed to better vigilance on the part of the staff in detecting offences.

The reasons for the increases in the Berar Circle, which appear to have occurred chiefly in Buldana, Yeotmal and Nimar Divisions, are not clearly explained by the Conservator. He, however, notes that the restrictions now being introduced on the removal of produce from the newly constituted A Class reserves in the Melghat have not been enforced with undue severity on the Korku population since the increase in the number of unauthorized removals of produce was only 15 (from 52 to 67).

Under "Unauthorized grazing", the increases in the number of offences as compared with the preceding year were Northern Circle 280, Southern Circle 167 and Berar 508.

The increases are considerable, and are attributed in the Northern Circle to the tendency of the people to evade the new grazing rules: the most marked increases were in Damoh (114), Chhindwara (109) and Saugor (67).

In the Southern Circle, an increase occurred in all Divisions except Nagpur-Wardha Division, and is considered generally to be due to greater energy on the part of the staff.

In the Berar Circle, the most marked increases were in Buldana (216) and Yeotmal (254) and they are ascribed to the scarcity of fodder which led the people to graze their cattle in closed areas with the hope of escaping detection.

The Deputy Commissioner, Buldana, in commenting on the sudden rise (51.4 per cent) of grazing offences, whilst admitting that there was a scarcity of fodder, which, however, did not prove to be as acute as was feared, states that this scarcity does not wholly explain the large increase; he considers that the penalty recovered as compensation is often too low and that the amount should be substantially greater than the fines recovered at the cattle pound so as to be a real deterrent. Other Deputy Commissioners express similar views, and the Deputy Commissioner, Nagpur-Wardha, remarking "People do not graze cattle or cut wood without licenses through inadvertence and if the small number of such cases that are detected are leniently dealt with a kind of direct encouragement to illegal grazing or removal of produce is the result." In view of the fact that new grazing rules have recently been introduced for the Central Provinces and that the existing rules in Rerar will probably be revised shortly, it is desirable that the rules should be worked with sympathy and leniency until they are fully understood by the people, at the same time when it is decided that compensation should be levied, the amount taken should be sufficient to act as a deterrent.

Out of the total number of cases of the year, 257 cases, or 2 per cent, were taken into Court; 9,887 cases, or 87 per cent, were settled by compensation under Section 67 of the Forest Act; 371 cases, or 3 per cent, remained undetected and 937 cases, or 8 per cent, were pending at the close of the year. Of the cases taken into Court convictions were obtained in 86, 76 and 75 per cent in the Berar, Northern and Southern Circles, respectively, the percentage for the Province as a whole being the same as last year, vis., 79. The punishments inflicted by Courts are reported to have been on the whole adequate in all the Circles, except in the Chhindwara Division. It is stated that the District Magistrate has, however, taken action in the matter. The Conservator, Southern Circle, remarks that some Divisional Forest Officers do not appear to exercise sufficient discretion before sending cases up to Court as to whether the evidence is strong enough to ensure conviction or not. The most important case prosecuted during the year was that of a timber contractor in the Nimar Division who felled unmarked trees in his coupe and was sentenced to 6 months' rigorous imprisonment. The Conservator, Berar Circle, observes that this conviction and punishment have contributed largely to a serious decrease in the amounts bid for the current year's coupes. He further adds that this will have a salutary effect on the working of lessees for some time to come. The number of cases compounded was 9,887 and the average compensation

realized per case and per person were, respectively, Rs. 8-5-1 and Rs. 3-1-4 in the Northern Circle, Rs. 6-0-4 and Rs. 2-5-0 in the Berar Circle and Rs 8-2-0 and Rs 2-7-0 in the Southern Circle, where the compensation varies from Rs. 1-3-7 per head in North Chanda to Rs 3-15-9 per head in Balaghat.

Rules for the regulation of timber and fuel in transit in the Yeotmal District were prepared with the concurrence of the Commissioner, Beiar, and notified shortly after the close of the year. It is hoped that they will lessen the possibility for illicit removals of forest produce

The following statements compare the results of fire-protection during the last three years and the origin of forest fires of the year under review with that of the preceding year—

| Circle. | | Year of protection. | Area protected, 1911-17 | Area sttempted to be pro- tected | Failures. | Area actually protected | Cost | Percentage of area actually protected |
|-------------|------|-------------------------------|---|---|-------------------------------|-------------------------------------|-------------------------------|---------------------------------------|
| | | | Acres | Acres. | Acres. | Acres. | Rs. | |
| Northern | { | 1910-11 1911-12 1912-13 | 1,777,640 1,713,000 1,692,786 | 1,761,220 1,753,272 1,971,486 | 43,220 60,486 48,515 | 1,713,000 1,692,786 1,922,971 | 28,405 30,047 33,028 | 97 97 98 |
| Southern | { | 1910-11 1911-12 1912-13 | 2,980,064 3,170,22 7 2,921 709 | 3,270,064 2,969,095 3,098,263 | 59 837 46,386 49,945 | 3,170,227 2,921,709 3,048,318 | 54,581 45,771 48,054 | 98 98 98 |
| Berar | { | 1910-11 1911-12 1912-13 | 2,278,581 2,317,609 2,274,317 | 2,470 329 2,413,925 2,327,211 | 131,597 139,608 18,316 | 2,338,732 2,274,317 2,308,915 | 40,676 38,853 33,691 | |
| Total | { | 1910-11 1911- 2 1912-13 | 7 036 285 7 200 836 6,888,812 | 7,461,613 7,135,292 7,396,980 | 239 654 246,480 116,776 | 7,221,059 6,888,812 7,280,204 | 113,662 114,671 114,773 | 97 |
| Square mile | es . | | *** | 11,558 | 182 | 11,376 | ** | • |

| ALASA AL | Nor | thein | Son | athern | В | erar | Total, | 1912-13 | Total, | 1911-12. |
|--|------------------------|----------------|-------------------------|----------------|-------------------------|-----------------|-------------------------|----------------|--------------------------|-----------------|
| Origin of fire | Num- ber of hres | Acres burnt | Num- ber of fires | Actes burnt | Num- ber of fires | Acres burnt. | Num- ber of fires | Acres burnt | Num- ber of fires. | Acres burnt. |
| | | | | | | | | | | |
| A -Burning lines | 11 | 10,010 | 16 | 4,027 | 1 | 3,434 | 34 | 17,471 | 63 | 12,163 |
| B-Crossing exterior lines. | 12 | 3,654 | 14 | 13,731 | 2 | 825 | 28 | 18,210 | 42 | 34,365 |
| C —Persons in forests (accidental) | 27 | 13,283 | 28 | 10 382 | 12 | 3,126 | 67 | 26,791 | 75 | 95,720 |
| D —Persons in forests (incendiary) | 1 | 573 | 3 | 4,312 | | | 4 | 4,885 | 6 | 5,039 |
| E -Railway Engines | 3 | 160 | 5 | 1,035 | 1 | 95 | 9 | 1,290 | 7 | 1,769 |
| F -Causes unknown | 44 | 20,835 | 26 | 16 458 | 9 | 10,836 | 79 | 48,129 | 114 | 971424 |
| | | | - | <u></u> | - | - | | | | |
| Total | 8و | 48,515 | 92 | 49,945 | 31 | 18316 | 221 | 116,776 | 307 | 246,480 |

The area attempted to be protected rose from 7,135,292 acres, or 11,149 square miles, in 1911-12 to 7,396,980 acres, or 11,558 square miles, in 1912-13. There was an increase of 218,214 acres and 130,168 acres in the Northern and Southern Circles, respectively, while the Berar Circle showed a decrease of 86,694 acres consequent on the removal from fire-protection of certain areas in the Betul Division and on the early burning instead of systematic protection of considerable areas in the Nimar Division. The chief increase in the Northern

Circle occurred in Mandla where protection was extended to the Khannat forests. The success attained in the fire-protection during the year under review was very satisfactory, 28 per cent of the area under protection having been successfully protected. The percentage of failure on the Northern Circle fell from 3 to 2, in the Southern Circle it was the same as last year, while in the Berar Circle there was an increase of 5 per cent in the success attained Though some showers of rain in January and February delayed the work of finally burning the lines to some extent, yet fairly heavy and general rainfalls in the latter part of May shortened the season of danger and the heat and drought were neither so intense nor so prolonged as in recent seasons. It is satisfactory to be able to note that the policy of burning early areas where systematic protection could not be carried out was responsible to some extent for the success obtained was a gratifying decrease in the Northern and Berar Circles in the number of fires caused by carelessness in burning fire lines. The area burnt by this cause in the Damoh Division was, however, conspicuously large and the subordinates at fault have been suitably dealt with. There were in all 221 fires burning an area of 116,776 acres during the year under review against 307 which covered 240,480 acres in the preceding year. Practically complete success was attained in protection in the Akola, Amraoti, Yeotmal, North Mandla and Hoshangabad Divisions, the results being very good also in South Chanda, Bhandara, Melghat and Buldana, but in Damoh and Raipur the percentages of failure were 10 and 5, respectively In the latter Division, one fire, which spread from the Madras border, burnt 10 square miles It is hoped that some suitable arrangement will be agreed on with the Madras Government to prevent a similar occurrence. The greater area burnt in the Damoh Division was due, it appears, to the protective measures having been extended during the year to a considerably larger area.

The average cost per square mile of fire-protection for the Province fell from Rs. 10-4-7 in 1911-12 to Rs. 9-14-11 in the year under review. The highest cost (Rs. 18-0-10) was in the Amraoti Division, in which Division the cost of protection is always high owing to the small areas of the reserves. The high cost appears, however, to be susceptible of reduction.

throughout the year and 2 per cent for a portion of the year in 1912-13 against 17 per cent and 2 per cent, respectively, in the year 1911-12. 82 per cent was open to the grazing of all animals, except browsers, for whom 35 per cent was available, the same percentages for the preceding year being 81 and 36, respectively. The proportion of total closure varies from Circle to Circle, being 13 per cent in the Northern Circle as in the last year and 22 and 10 per cent, respectively, in the Southern and Berar Circles, showing a decrease, in each case, of 2 per cent over those of 1911-12.

The total number of cattle impounded during the year compares as follows with that in the previous year:—

| Circle | | 1911-12 | 1912-13 | Increase. |
|----------------------|--------|----------------|----------------|-----------------|
| Northern Southern | oag | 4,096 4,691 | 4,311 3,384 | +215 1,307 |
| Berar | F ,4.5 | 4,743 | 6,03 <u>5</u> | + 1,292 |
| | Total | 13,530 | 13 730 | Increase 200 |

The increase in the Berar Circle is ascribed to animals straying from their herdsman owing to semi-starvation, while the reason for the marked decrease in the Southern Circle has not been given by the Conservator.

13. The effects of frost during the year were slight. A severe hailstorm protection against injury passed over Seoni and Chhindwara, several trees were uprooted and great damage was done to the lac and mahua crops.

Considerable damage was caused by the teak defoliator (Hyblæa puera) especially in Betul and the Melghat The teak in the Chhindwara, Seoni, Damoh and Jubbulpore Divisions also suffered. The bamboo weevil continued to cause damage, but now that it's life history is more accurately known, it is hoped greatly, to reduce the damage in future. The injury caused by the sal borer is reported to be less than in the preceding year. It is satisfactory to learn that the damage done to babul by the beetle, Corlosterna spinator, has apparently been arrested by the thinning and pruning of young plants. The efforts to restrict the spread of Loranthus were continued in the Northern Circle, some 45,000 trees being freed from this pest.

In the Melghat 1,800 acres were cleared of lantana. This pernicious shrub does not at present constitute a serious menace to forest growth in this Province, but care must be exercised to prevent it extending Good progress appears to have been made with the cutting of climbers and it is hoped that the experimental measures for the eradication of the Ironi creeper, which is abundant in the Southern Circle, will prove efficacious.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Reproduction from seed in this Circle was also not satisfactory as a result probably of short rainfall. Natural regeneration in the Southern Circle is reported to be as poor on areas absolutely closed to grazing as on the open areas. The experiment of alternate opening and closing of areas for five years is being tried in some Divisions. Coppice reproduction was good in almost all Divisions save in the Berar Circle where only in Betul and parts of Akola Division satisfactory growth was reported.

Artificial reproduction.

Of this 637 acres of teak, bamboo and sandal are in the Northern Circle, 156 acres of sandal in the Southern Circle and 27 acres of bamboos in the Berar Circle.

In the Berar Circle the system of clear felling areas and then giving them out for cultivation for field crops combined with the sowing of forest seeds, was continued. 531 acres in babul bans and 140 acres in mixed scrub forest were treated in this way in Amraoti, Buldana and Akola Divisions. It is satisfactory to learn that in the area already worked under this system the results obtained in stocking the land are good. It is reported that the modifications in the rules, extending the period for the cultivation of cotton, appears to make the system more popular.

Various experimental sowings of different species were made, principally in the Northern Circle, but the results recorded are not very promising.

Operations for the improvement of the growing stock. and were carried out over an area of 644 acres at a cost of Rs. 759 during the year against 937 acres and Rs. 950 respectively, in 1911-12. Including the value of a small quantity of material unsold at the close of the year the revenue derived from these operations was Rs. 2,518 against Rs. 1,687 in the preceding year.

Besides the above operations the young growing stock of babul was pruned and thinned over 411 acres at a cost of Rs. 640.

The following statement compares the cutting back operation carried out during the year under review with those in 1911-12:—

| | Circle. | | Year. | Area in acres. | Cost. | Revenue | Remarks. |
|--|---------|-------------|---------|----------------|---------------|---------------|--|
| har administrative vision and a second | 1 | | 2 | 3 | 4 | 5 | 6 |
| <u> </u> | | | · | | Rs | R9. | |
| | | | 1912-13 | 27,775 | 7,774 | 4,122 | |
| Morthern | | · · } | 1911-12 | 21,890 | 5,364 | 1,1:4 | |
| | | C | 1912-13 | 6,503 | 2,021 | 1 391 | |
| Southern | | . [] | 1911-12 | 5,160 | 3,7 49 | 3,041 | |
| 7 1 | | | 1912-13 | 41,063 | 14,259 | 5 ,869 | lmaterial unsold at Inc |
| Berar | | . [| 1911-13 | 37,298 | 10 447 | 13,358 | close of the year, and Rs 335 being the value |
| | en . 1 | (| 1912-13 | 75,341 | 24,054 | 11,382 | of the balance of last year's stock sold. |
| | Total | . { | 1911-12 | 64 357 | 18,560 | 17,5 3 | year 5 515622 1515 |

Good progress was made in this important work on which the future of the forests so much depends in the Northern and Berar Circles. In the Southern Circle, however, from the figures available it does not appear that it is receiving the attention it descrees; there was a slight increase in the comparatively small area worked over, but this is apparently more than accounted for by the fact that the work hitherto shown as improvement fellings in the South Chanda. Division has this year been included in the cutting back operations. The Conservator states that the work is carried out by purchasers under the terms of their agreements, as well as departmentally, but this is true to a large extent in the case of the other Circles. The exact progress made should be more clearly shown in the next year's report. The work is of such importance that a considerable expenditure is justified without reference to the revenue that may be derived from the sale of the produce obtained from the operations.

17. Experiments were carried out in all Circles for the purpose of ascertaining the rate of growth of trees of various species, Experiments the rate of coppice growth, the effect of thinning on coppice shoots, the yield of grass for fodder on different soils and under varied conditions, and the incidence of cattle grazing and its effect on forest growth. In the Northern Circle experiments to test the effect of the season on felling in coppice reproduction were again conducted under the directions of the Forest Botanist. In the Damoh and Saugor Divisions of this Circle experiments to ascertain the effect of forest fires in different months on tree growth and development of forest crop are being continued. Lac was experimentally planted on some pales and ghont trees in Jubbulpore Division, while in the Hoshangabad Division a small area was planted and sown with "tur" and the plants were infected with lac. It is reported that Chir Pine is doing well in Balaghat, and Sandal wood is tending to produce itself naturally from the seed from the plantations in North Chanda Sample plots to ascertain the most suitable intensity for thinnings in babul bans, to investigate the varieties of babul, and to detern ine the correct height for pollarding anjan, and to ascertain the best conditions for seed regeneration of the same species were maintained in Buldana, Akola at d Nimar Divisions. In Betul 300 sleepers of saj were treated under the direct supervision of the Forest Economist with zinc chloride and heavy oil. The sleepers are to be made over to the Great Indian Peninsula Railway for trial. Experiments in tapping salai for resin were continued in Nimar and Melghat, those in the former division being more promising. Investigations to determine the best method of eradicating the Ironi Creeper in the Southern Circle were continued. It is to be regretted that not much progress was made in improving the methods of recording statistics in regard to sample plots.

18. The statement given below compares the areas in which the various methods of treatment were employed during the year with those in the previous year:—

| | C) fells | Clear fellings. | | ction ings. | Improvement fellings | | Coppustant | | | ings of les. | Total. | |
|--------------|--------------|--------------------|---------|----------------|-------------------------|----------|------------|---------|---------|-----------------|---------|----------|
| Circle. | 1912-13 | 1911-12 | 1912-13 | 1911-12 | 1912-13 | 1911-12. | 1912 13. | 1911-12 | 1912-13 | 1911-12 | 1912 13 | 1911-12. |
| I | 2 | 3 | 4 | | 6 | 7 | 8 | 9 | 10 | 31 | 13 | 73 |
| | Acres. | Астев | Acres | Acres | Acres | Acres. | Acres | Acres | Acres | Acres | Acres | Acres |
| Northern | | | 2,591 | 2,490 | 24 254 | 28,383 | 14,053 | 9,726 | | | 40,908 | 40 699 |
| Southern | 1 | | 480 | 465 | 18,367 | 1 3,350 | 40,290 | 40,096 | | ., | 59 137 | \$3,911 |
| Berar | \$ 78 | 460 | | | 28 185 | 27,114 | 23,080 | 13,189 | | | 52 043 | 40,763 |
| Fotal | 578 | 460 | 3,071 | 3 955 | 71,0 6 | 68,847 | 77,423 | 63,011 | | - | 152,058 | 135,573 |

From this it will be seen that there was a satisfactory increase of 16,715 acres in the area subjected to systematic fellings. The increases occurred mostly in the Berar and Southern Circles There were, however, considerable deficits under the new Bhandara and Nagpur Working-plans and this matter should receive attention of the Conservator.

In addition to the above, unregulated fellings were made in C class areas of the Berar proper and in the nistar areas of the Betul and Nimar Divisions, while in the Northern Circle these fellings were carried out in all the Divisions, except Chhindwara, and were restricted generally to the nistar areas as well as to those in which the prescriptions of the regular working-plans were held in abeyance. In the Mandla Division these fellings were permitted to the extent of removal of teak and saj timber from excised areas and ryotwari waste.

The orders of Government on the question of restricting unregulated fellings by commuters in the Mandla Division (referred to last year) were issued after the close of the year. The rules now to be brought in force cannot fail to have a beneficial effect.

19. The following statement compares the principal kinds of minor forest produce extracted from the forests during the year and the revenue realized with the results of the preceding year:—

| 77. 4 | | North | ern. | South | ern. | Bera | ar. | Tota | al. |
|-------------------|-----|----------------|--------------------|------------------|------------------|------------|----------|----------|----------|
| Kind of produce. | | 1911-12. | 1912-13 | 1911-12 | 1912-13 | 1911-12. | 1912-13, | 1911-12 | 1912-13 |
| I | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs, |
| Harra | | 14 065 | 22,579 | 34,442 | 20,060 | 2,460 | 1,951 | 50,967 | 44,590 |
| Lac . | | 16,622 | 15,353 | 14,715 | 10,075 | 1,683 | б14 | 33,020 | 26,042 |
| Mohwa and Achar . | .] | 7,263 | 4.471 | 6,342 | 2,346 | 1,605 | 1,204 | 15,210 | 8,021 |
| Hides and horns . | | 9,315 | 7,600 | 5,565 | 5,296 | 3,239 | 4,211 | 18,719 | 17,107 |
| Bamboos . | | 54,7 61 | 57,855 | 1,00,961 | 1,05,686 | 81,098 | 71,626 | 2,36,820 | 2,35,107 |
| The talence areas | · | } 1,20,961 | 81 _{,424} | 52,597 57,797 | 23,051 65,193 | } 1,97,034 | 1,66,794 | 4,28,389 | 3,36,462 |
| Russa grass | - [| 185 | *** | *** | ••• | 33,664 | 33 491 | 33,849 | 33,49 |
| Minerals | | 3,148 | *** | 1,723 | 3,176 | 9,527 | 10,041 | 14 398 | 13,21 |
| Miscellaneous | | •• | *** | 13,711 | 19,849 | *** | | 13711 | 19,849 |
| Total | [| 2,26,320 | 1,89,282 | 2,87,853 | 2,54,732 | 3,30,310 | 2,89,932 | 8,44,483 | 7,33,946 |

The revenue from these products fell from Rs. 8,44,483 in 1911-12 to Rs. 7,33,946 in the year under review, there being a decrease under each head, the items chiefly responsible for it being grass, harra, lac and mohwa and achar. The fall in the value of grass was mainly due to the fact that the 1911-12 figures included revenue from the supply during the preceding year to the Bombay Presidency, though the 1912-13 figures include Rs. 54,000 on this account in the Northern Circle. There was an increase under harra in the Northern Circle as a result of the departmental operations in the Mandla Division, the decrease in the Southern and Berar Circles being due to the poor crop.

The following statement shows the total number of animals grazed and the value of the grazing at full rates, compared with the revenue actually received:—

| Circle | Year. | Buffaloes | Cows and bullocks. | Sheep and oats. | Other ani- mals | Total ani- mals. | Value at full rates. | Revenue actually received. |
|------------------------------|----------|-----------|--------------------------|-----------------------|-----------------------|------------------------|----------------------------|----------------------------------|
| I. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | |] | | | | Rs. | Rs. |
| Northern { | 1911-12 | 205,231 | 1,180,250 | 92,830 | 5,829 | 1,487,140 | 4,32,807 | 2,82,989 |
| 5 | 1912-13 | 175,358 | 1,020,329 | 73,034 | 4,872 | 1,273,593 | 6,62,823 | 4,65,269 |
| Southern | 1911-12 | 82,676 | 705,994 | 114,771 | 440 | 904 881 | 2,33,696 | 1,5 5 ,657 |
| . S | 1912-13 | 78,895 | 687,095 | 102,937 | б17 | 869,544 | 4,25,485 | 2,74,239 |
| Berar (Nimar and { | 1911-12 | 58,425 | 272 799 | 1,632 | 482 | 333,338 | 2,5 5 ,1 6 8 | 1,15,742 |
| Betul only). | 19,12-13 | 58,530 | 276,736 | 2,311 | 354 | 337,931 | 1,75,034 | 1,30,319 |
| Total Central Prov. | 1911-12 | 349 332 | 2, 160,043 | 209,233 | 6,751 | 2,725,359 | 8,21,671 | 5,54,388 |
| inces (proper). | 1912-13 | 312,783 | 1,984,160 | 178,282 | 5,843 | 2,481,068 | 12,63,342 | 8,69 827 |
| | 1911-12 | 164,348 | 1,094,140 | 416,858 | 3 544 | 1,678,890 | 3,65,366 | 3,21,781 |
| Berar (proper) } | 1912-13 | 166,543 | 1 093,875 | 491,794 | 3,478 | 1,755,690 | 3,87,946 | 3,47,380 |
| | 1911-12 | 513,680 | 3,254,183 | 626,091 | 10,295 | 4,404,249 | 11,87,037 | 8,76,169 |
| Total Central Prov- { inces. | 1912-13 | 479,326 | 3,078,035 | 670,076 | 9,321 | 4,236,758 | 16,51.288 | 12,17,207 |
| Difference . | *** | -34,354 | 176,148 | + 43,985 | -974 | — 167,491 | +4,64,251 | + 3,41,038 |

While there was an increase of 81,393 in the number of animals grazed in the forests of the Berar Circle, the number in the Northern and Southern Circles showed a decrease of 213,547 cattle and 35,337 cattle, respectively. For the Province as a whole the number grazed fell from 4,404,249 to 4,236,758, or a decrease of 167,491. Although the number of cattle grazed decreased, the total value of the grazing at full rates shows an increase of Rs. 4,64,251, the increase in the revenue actually realized being Rs. 3,41,038 due to the introduction of the new grazing rates in the Central Provinces proper.

It is satisfactory to observe from the remarks made by several Deputy Commissioners that the new rules appear to be working smoothly and successfully and that the rise in rates has not been seriously felt. The question of revising the rules to prevent an excess number of ploughs over the number of actual "working" ploughs being claimed by agriculturists in order to increase the number of cattle at privileged rates is under consideration.

The grazing incidence per head of cattle in the Northern Circle ranged from 2 17 acres in the Chhindwara Division to 6 78 acres in Hoshangabad, the

average incidence for the Circle being 3'2 acres per head. In the A class forests of the Berar Circle the maximum and minimum incidences were 7'2 in the Melghat and 1'2 in the Amraoti Divisions respectively, while in the C class forest the incidence was, as usual, less than one acre per head. The incidence in the Southern Circle was 4 acres per head. Excluding the areas closed to grazing throughout the year the average incidence for the Province as a whole was 2 6 acres.

In the Central Provinces proper the number of animals grazed at privileged rates was 1,170,871 against 1,283,247 grazed at full rates, while 26,950 cattle grazed free, the respective numbers for the preceding year being 1,062,614, 1,289,513 and 19,695. In Berar the number grazed at privileged rates was 200, at full rates 1,548,610 and free 206,880. The total value of the grazing concessions in the three Circles amounted to Rs. 4,34,081 against Rs. 3,10,868 in 1911-12. Of the cattle grazed at full rates 586,925 paid the ordinary rates, 86,634 paid nomadic rates and 609,688 paid commercial rates, against 1,027,871, 132,155 and 129,487 respectively during the year 1911-12. It is satisfactory that there has been a considerable increase in the cattle of the last category.

20. The total outturn of major forest produce during the year under review as compared with that of the preceding year is shown in the following statement:—

| | | | | T mher. | | | | | Fuel | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
|------------|-----------------------------|--------------------|------------------------|--------------------|-------------------|------------------------|------------------|--------------------------|--------------------------|------------------|--|------------|
| Circle. | Year. | Govern- ment. | Pur- chasers | Free grantees. | Right holders, | Total. | Govern- ment. | Pur chasers | l rer grantees. | Pight holders | Tetal | Total |
| • | 3 | 3 | 4 | \$ | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | C£t. | Cft. | Cft. | Cft. | Cft. | Cft. | Cft. | Cft. | Cft. | Cft | Cft |
| Northern , | 1917-13 | 172,861 | 1,577,897 | 28,616 | | 1,779,374 | 349,160 | 3,889,600 | 253,602 | *** | 4,492,562 | 6,271,736 |
| - (| 1912-15 | 359 ,3 81 | 2,341,553 | 24,163 | | 2,725,097 | 538,921 | 4,642,931 | 275,493 | *** | 5,458,345 | 8,183 442 |
| Southern . | 1911-13 | 358,697 | 3,379,463 | 110,627 | | 3,858,787 | 5 15,°87 | 15 217,001 | 482,566 | | 16,245, 154 | 20,104,241 |
| C | 1912-13 | 340,891 | 5,033,201 | 72,128 | | 5 446,220 | 411,592 | 15,382,662 | \$44,927 | •• | 16,339,181 | 21,785,401 |
| Berar | 1916-19 | 196,585 | 837,258 | 19.967 | 31,124 | 1,084,935 | 253,742 | 3,617,283 | 273,352 | 1,421,812 | 4,566,1°9 | 5,651,127 |
| (| 1912-13 | 187,158 | 822,568 | 32,678 | 74,364 | 1,116,768 | 256,699 | 3,381,984 | 320,327 | 1,374,029 | 5,334,029 | 6,450,797 |
| Total{ | 1911 12 191 2- 13 | 738,147 897,430 | 5,794,G18 8,107,322 | 159,210 128,969 | 31,124 74,364 | 6,723,099 9,285,085 | | 21,723,884 23,408,577 | 1,009,520 1,1 \$1,747 | | 25,304 cos 27,131,555 | |

There was a very satisfactory increase of 2, 564,986 cubic feet in the outturn of timber. The increases were mainly in the Northern Circle (945,723 cubic feet) and Southern Circle (1,587,433 cubic feet).

There was a considerable increase (1,827,550 cubic feet) also in the outturn of fuel in which all Circles contributed, the important increases being, however, in the Northern Circle (965,983 cubic feet) and Berar (767,840 cubic feet).

The proportions of the total outturn removed by Government Agency were timber 9.5 per cent, fuel 4.4 per cent and total 5.7 per cent, as compared with 11.5 and 6 per cent respectively in 1911-12.

It is desirable that the exploitation of the forests should be, as far as possible, by the agency of purchasers, and this is now generally the case, departmental agency as a rule only being resorted to with the object of inducing contractors to take up the work later on, when they see that it can be carried out at a profit Departmental operations were undertaken in Damoh and Bilaspur with this object during the year.

21. The total value of minor forest produce removed from the forests during the year as compared with 1911-12 is shown in the following statement —

| The state of the s | Circle | | Year. | Bomboos | Grass. | Grazing | Other minor produce | Total. |
|--|--------|----------|---------|----------|----------|-----------|---------------------|----------------------------|
| | 1 | | 2 | 3 | 4 | 5 | б | 7 |
| | | | | Rs | Rs | Rs. | Rs. | Rs |
| | | (| 1911-12 | 54 761 | 1,20,961 | 2 87,139 | 86 715 | 5,49,576 |
| Northern | | 1 | 1912-13 | 57 855 | 81,421 | 4,69,701 | 93 767 | 7,02,747 |
| Southern | | ς | 1911-12 | 1,00,961 | 52,597 | 1,57,680 | 1,34,295 | 4,45,533 |
| Southern | | { | 1912-13 | 1,05,686 | 23,051 | 2,76,737 | 1,25,995 | 5 , 31 ,46 9 |
| Berar | | 5 | 1911-12 | 81,098 | 1,97 034 | 4,82,364 | 86,036 | 8,46,532 |
| weigi | | { | 1912 13 | 71,626 | 1,66,794 | 5,20 026 | 89 6 99 | 8,48,145 |
| | | | | | | | | |
| | Total | \ | 1911-12 | 2 36 820 | 3 70 592 | 9,27,183 | 3,07,046 | 18,41,641 |
| | | • | 1912 13 | 2,35,167 | 2,71,269 | 12,66,464 | 3,09,461 | 20,82,361 |
| 7 | | | | —1,653 | 99 323 | +3,39,281 | +2,415 | + 2,40,720 |

It will be seen from the above that the revenue obtained during the year under review rose by Rs 2,40,720 for which the grazing receipts are responsible. The fall in the value of the grass was due to the cessation of operations for the supply of grass to the Bombay Presidency though receipts of Rs 54,000 in the Northern Circle are included. If the revenue derived from these operations is excluded from the figures of both years it will be seen that the results of the year under report were very favourable, the increase being Rs. 4,12,752, which was shared by all the Circles as shown below:—

| | Circle | | Bamboo | Grass | Grazing. | Other | Total |
|-------------------------------|-------------------|-------|---|-------------------------------------|--|---|---|
| Constitution of the second | 1 | | 2 | 3 | 4 | 5 | 6 |
| Northern Southern Berar | shi shi esh | Total | Rs. +3,094 +4,725 -9,472 -1,653 | Rs 2 321 + 18,584 + 56,446 + 72,709 | Rs + 1,82,562 + 1,19 057 + 37,662 + 3,39,281 | Rs. +7,052 -8,300 +3,663 +2,415 | Rs. + 1,90,387 + 1,94,066 + 88,299 + 4,12,752 |

The increase under the revenue from grazing was due to the introduction of the new grazing rules

Attempts to induce agriculturists to buy baled grass were continued during the year and each Circle report contains an interesting account of the experiments undertaken.

It must be admitted, however, that the results obtained are not encouraging. Of 146 tons of baled grass cut and baled in the Northern Circle only 29½ tons were disposed of to agriculturists. In the Southern Circle of 207 tons baled, agriculturists only took 2 tons. In Berar they purchased apparently 174 tons out of 343 tons cut and baled.

In the Northern Circle 8 tons of loose grass were taken by agriculturists out of 25 tons cut.

By selling the balance of grass to other purchasers the results financially were not unsuccessful, the expenditure and revenue being as follows:—

| | Circle. | | Expenditure. | Revenue. |
|------------------|---------|-------|--------------|----------|
| | 2 | | 2 | 3 |
| | | | Rs | Rs. |
| Northern | | *** | 1,356 | 1,083 |
| South ern | *** | | 2,794 | 5,035 |
| Berar | •• | • | 5,876 | 8,160 |
| | | Total | 10,026 | 14,278 |

Whilst the efforts to induce agriculturists to use baled grass and thus extend the practice of stall feeding have not met with success so far, they might be continued for another season on a small scale in likely localites, more attempts being made to sell grass loose, where it is preferred in this form to baled grass. It appears also that there is a demand by other purchasers for baled grass, and this is a source of revenue that should not be overlooked.

Right holders, free grants 21. The following statement compares the value of and concessions forest produce given free or at reduced rates during the year with that of the previous year:—

| . . | | Right l | olders | Free g | rants. | Conces | sions. | Total. | | |
|------------|---|---------|----------|----------|---------|----------|----------|----------|----------|--|
| Circle. | | 1911-12 | 1912-13. | 1911-12. | 1912 13 | 1911-12 | 1912-13. | 1911-12 | 1912-13 | |
| ĭ | | 2 | 3 | 4 | 5 | б | 7 | 8 | 9 | |
| | Ì | Ra. | Rs. | Rs. | Rs | R9. | Rs. | Rs | Rs. | |
| Northern | | • | 441 | 12,243 | 11,300 | 1,12,258 | 97,571 | 1,24,501 | 1,08,871 | |
| Southern |] | ., | ••• | 15 532 | 17,649 | 1,26,776 | 1,72,045 | 1,42,308 | 1,89,694 | |
| Berar | | 51,578 | 39,445 | 58,597 | 63,594 | 87,991 | 92,552 | 1,98,166 | 1,95,591 | |
| Total | ľ | 51,578 | 39,445 | 86,372 | 92,543 | 3,27,025 | 3,62,168 | 4,64,975 | 4.94,156 | |

23. Below is shown the outturn of major produce and the value of the outturn of minor produce extracted by all agencies as compared with those of the year 1911-12:—

| Girele, | lin | nber | je i | æl. | Ban | iboos. | Gr | 136, | Grazing, | | Other minor produce | |
|---------------------------------|--|---|--|---|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|---|-----------|------------------------------------|-------------------------------------|
| 4 | 1911 13 | 1912-13 | 1911 12 | 1912-13. | 1941-19. | 1912-13. | 1911-12 | 1912 13 | 191 1-12. | 1912-13. | 1911-12 | . tgrs-13 |
| ì | * | 3 | 4 | 5 | 6 | 7 | В | 9 | 10 | 11 | 12 | 13 |
| Northern Southern . Borar | Cft 1,779,374 3,858,787 1,084,938 | Cft, 2,725,097 5,446,220 1,116,768 | Cft 4,492,362 16,24\$,454 4,566,289 | Cft 5,488,345 16 349,181 5,334,029 | Rs 54,761 1,00,961 81,098 | Rs 57,855 1,05,686 71,646 | R= 1,20,961 52,597 1,97,034 | Rs 81,424 23 051 1,66,794 | Rs 2,87,139 1,57,680 4,8 2,364 | | R: 86,715 1,34,295 86,035 | R., 93,767 1,25,995 89,699 |
| Total in | 6,725,099 | 9,488,084 | #5,364 <u>,</u> 005 | 27,131,555 | , 2,36,820 | 9,35,167 | 3,70,593 | 2,71,96g | 9,87,181 | 12,55,404 | 3,07,046 | 3,09,4 6 E |

24. The following statement compares the financial results of 1912-13 with those of 1911-12 and with the average of the five years ending in 1910-11:—

| | | | | Expendituic. | | | Per- |
|-----------|--------------------------------|-------------------------------------|------------------------------------|------------------------|---------------------------------|------------------------|--|
| Circle. | Year | Revenue | A | В. | Total | Surplus. | age of net reve- nue to gross reve- nue. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | ı | | Rs. | Rs. | R۰, | | |
| ſ | Average 1906-07 to 1910-11. | 5,63,074 | 1,59,254 | 3,01 069 | 4,60,323 | 1,02,751 | 18 |
| Northern | 1911-12 | 7, ⁸ 9,414 (6,98,198) | (1,63,957) (3,43,804) | | 5 96,676 (5,07,761) | 1,92,738 (1,90,437) | 24 (27) |
| (| 1912-13 | 9,72 853 (9,18,853) | 2,55,164 (2,10,164) | 3,65,649 (3,65,649) | 6,20 813 (5,75,813) | 3,52,040 (3,43,040) | 3 6 (37) |
| ŗ | Average 1906-07 to | 6,89,509 | 2,86,040 | 3,16,251 | 6,02,2 91 | 87,218 | 13 |
| Southern | 1911-12 | 7,60,145 (7,12,015) | 2,87,173 (2,48,341) | 3,76,590 (3,76,590) | 6,63,763 (6,24 931) | 96,382 (87 984) | 13 |
| \ | 1912-13 | 9,53,413 (9,53,413) | 2,57,876 (2,57 876) | 3,75,625 (3,75,625) | 6,33,501 (6,33,501) | 3,19,912 (3,19,912) | 34 (34) |
| ſ | Average 1906-07 to | 9,30,461 | 2,14,539 | 2,82,053 | 4,96,592 | 4,33,869 | 47 |
| Berar | 1911-12 | 11,1 6 ,629 (10,29,943) | 2,58,423 (1,78,089) | 3,35,891 (3,35,891) | 5,94,314 (5,13,980) | 5,22,315 (5,15,963) | 47 (50) |
| _ { | 1912-13 | 11,95,622 (11,46,986) | ^{2,} 77,075 (2,36,015) | 3 51,342 (3,51,342) | 6,28,417 (5,87,357) | 5,67,205 (5,59,629) | 47 (49) |
| General | 1910-11 | , | 35, | 624 | 35,624 | - 35,624 | |
| Direction | 1911-12 | | 40, | ر 6 ₄₃ | 4 0, 6 2 3 | — 40, 6 23 | |
| Division | 1912-13 | *** | 44, | ¥09 | 44,209 | 44,209 | . |
| | Avorage 1906-07 to 1919-11. | 21,83,044 | 6,59,833 35, | 8 99,373 624 | 15,94,830 | 5,88,214 | 27 |
| | 1911-12 | 26 .6 6,188 | | 10,56,285 623 | 18,95,376 | 7,70,812 | 29 |
| Total | • | (24,40,156) | <u></u> | (10,56,285) | (16,87,295) | (7,52,861) | (31) |
| | 1912-13 | 31,21,888 | 7,90,115 | 10,92,66 ,209 | 19,26,940 | 11,94,948 | 38 |
| į | | (30,19,252) | | (10,92,616) | (18,40,880) | (11,78,372) | (39) |

Note.—Figures in brackets are exclusive of Bombay grass operations.

Rombay grass operation

.. 1,02,636

86,060 ... 86,060

16,576

Omitting the revenue and expenditure in connection with operations undertaken to supply fodder grass to the famine distressed districts of the Bombay Presidency from both the years, and comparing the results with the year 1911-12 it will be seen that the revenue increased by Rs. 5,79,096 and that the expenditure and the surplus rose by Rs 1,53,585 and Rs 4,25,511 respectively, the percentage of the net revenue to gross revenue being 39 against 31. This is an appreciable increase, and the proportion should improve yearly. The grass operations referred to above yielded a revenue of Rs 1,02,636 while Rs. 86,060 were spent on them, leaving a profit of Rs. 16,576 During the year these operations were confined to the Northern and Berar Circles. The satisfactory increase in the revenue has been contributed by all the Circles and timber and grazing are responsible for nearly the whole of it. The Chief Conservator is glad to be able to note that this year the Southern Circle has shown a great improvement, the surplus being Rs. 3,19,912 against Rs 87,084 in the preceding year and a deficit of Rs. 35,522 in 1910-11. The increase in the grazing revenue was as pointed out above due to the introduction of the new grazing rules, while better prices from sales of coupes and the payment of first instalment of the lease money by the Allapilli contractor in the South Chanda Divison and by the Bengal Timber Trading Company in the Balaghat went to raise the income from timber.

The sources of income during the last two years are compared in the following statement:—

| | Parti | culars of revenue. | | 1911-12. | 1912-13. | Increase or decrease | |
|--|-------------|---------------------------|---------------|----------|--------------------------|-------------------------------|----------------------------|
| Maria da | | 1 | ستوري خدد. بد | | 2 | 3 | 4 |
| | | | | | Rs | Rs. | Rs. |
| Timber and other pr | oduce rem | oved by Government Agency | | ••• | 3 08,090 (82,058) | 2,61,830 (1,59,194) | - 46,260 + (77,136) |
| Timber and other pr | oduce rem | oved by purchasers, &c. | | | | | |
| Timber | •• | 4** | | ••• | 4,55,797 | 5,73,122 | + 1,17,325 |
| Firewood and charce | al | | | • | 2,28,836 | 2,66,262 | + 37,426 |
| Bamboos | *** | *** | | • | 2,10,487 | 2 11,017 | + 530 |
| Grazing and fodder | grass | 44.5 | | | 10,52,415 | 14,09,369 | + 3,56,954 |
| Other minor produce | : | *** | | ••• | 3,01,167 | 2,53,436 | - 37,731 |
| Miscellaneous | *** | | | • | 1,00,396 | 1,36,852 | + 27,456 |
| | | 1 | Total | | 26,66,188 (24,40,156) | 31,21,888 (30,19,252) | + 4,55,700 + (5,79,296) |

There was an increase under each head except "other minor produce" under removals by purchasers and it is satisfactory to note that this increase has again occurred under timber and fuel which indicates that the demand for major forest produce is steadily increasing.

With a continuance of the policy of opening out the forests by suitable communications, the exploitation of timber, fuel and bamboos should steadily increase. The introduction of revised grazing rates will go far to improve the source of revenue and it is desirable now specially to consider how better financial results can be obtained from the disposal of minor forest products. This matter was discussed at the last Conservators' Conference, and the Chief Conservator desires to call the attention of Conservators and Divisional Forest Officers to the necessity of giving careful consideration to these sources of revenue, and would invite attention to the following as being likely to repay special study.—

⁽i) The manufacture of tanning extracts from babul bark, and myrabolans, (ii) the manufacture of Rusa oil, and oil from Kusum seed, (iii) the disposal of fodder grasses.

Investigations have already been commenced in regard to most of the above. in consultation with the Forest Economist, and with the assistance of the Tanning expert good progress should be made, and more satisfactory financial results obtained.

Excluding the Bombay figures the expenditure under A shows an increase from Rs. 5,90,387 in 1911-12, to Rs. 7,04,055 in 1912-13 I his increase was due to the enhanced commission paid to license vendors owing to the increased revenue, departmental collection of harra in Mandla, and departmental operations of timber and fuel in Damoh, more expenditure on roads, buildings and other operations for improvement of the forests and to the payment of Rs 20,000 as the purchase money of the Indputa and Singora Malguzari villages in the Hoshangabad Division.

The percentage of revenue to expenditure of the total revenue obtained from various sources and of the total revenue spent on various works of improvement and organization and on establishment are exhibited in the following statement.

| | | Northern. | Southern. | Berar | Province |
|--|-----|-----------|-----------|-----------|----------|
| | - | ı | 2 | 3 | 4 |
| · | Ì | Per cent | Per cent. | Per cent. | Pcr cent |
| Total expenditure to Revenue | | 63 | 66 | 51 | 60 |
| Expenditure A to total Revenue | ١ | 23 | 27 | 20 | 23 |
| Expenditure B to total Revenue | | 40 | 39 | 31 | 37 |
| Surplus to total Revenue | | 37 | 34 | 49 | 40 |
| Percentage of total Revenue obtained from- | | | | | |
| (1) Major produce, timber and fuel | | 26 | 42 | 26 | 31 |
| (2) Bamboos | | 6 | 10 | 6 | 7 |
| (3) Grass and grazing | - { | 53 | 30 | 55 | 46 |
| (4) Other minor produce | | 10 | 14 | 8 | 13 |
| (5) Miscellaneous | | 5 | 4 | 5 | 5 |
| Percentage of total Revenue spent on- | | | | | |
| (1) Roads and bridges (A VII-a) | | 3 | 4 | 3 | 3 |
| (2) Buildings (A VII-b) | | 2 | 4 | 3 | 3 |
| (3) Tanks, wells, etc (A VII-c) | | 1 | 2 | 1 | 1 |
| (4) Fire protection (A VIII-f) | | 4 | 5 | 3 | 4 |
| (5) Other works cutting back operations, (A VIII-g). | | 1 | 1 | 1 | 1 |
| (6) Pay of establishment | 1 | 33 | 31 | 25 | 29 |
| (a) Conservators | • | 2 | 2 | 2 | 2 |
| (b) Superior officers | | 11 | 10 | 7 | 9 |
| (c) Subordinate establishment | | 15 | 13 | 12 | 13 |
| (d) Office establishment | | 5 | 6 | 4 | 5 |

Note -These figures exclude Revenue and Expenditure in connection with the Bombay grass supply as well as the expenditure of the General Direction Division

The post of the Chief Conservator was held by Mr. Hart, C I. E., up to the 4th April 1913, when the writer relieved him on his promotion to the Inspector-Generalship, and held the post till the end of the year The charge of the Northern Circle was held by the writer till the 2nd May 1913, and for the remainder of year Mr. H. H. Forteath was in charge. Mr. Haines relinquished charge of the Southern Circle on the 10th April 1913, on which date he proceeded on combined leave and was succeeded by Mr. Trafford, who remained in charge of the Circle during the

remainder of the year. Mr. Blunt was in charge of the Berar Circle throughout the year. No Imperial or Provincial Service Officer retired during the year, but Mr. Williamson, Deputy Conservator of Forests, was transferred to Assam to officiate as Conservator of that Province. He has since been granted combined leave with effect from the date of his relief in Assam.

The work of the subordinate staff appears to have been fairly good on the whole and the Chief Conservator is glad to note that several subordinates have been specially mentioned by the Conservator, Northern Circle. The Berar Conservator, however, states that there is great room for improvement, especially among the older subordinates. It is satisfactory to note that there was a further reduction in the percentage of punishments during the year, which was 15 against 18 in 1911-12. The proposals for the re-organization scheme referred to in the last year's review were returned by the Government for revision during the year and were re-submitted after the close of the year in so far as they relate to Forest Rangers and Forest Guards. All the Conservators have again brought to notice the inadequacy of the pay of the clerks in the lower grades and this matter is shortly to be enquired into.

The year was on the whole a healthy one, the mortality among the staff being 26 guards, one orderly and one Range clerk.

During the year the Narsinghpur Division was amalgamated with the Jubbulpore Division, and with the transfer of the Dhanwahi Range from Jubbulpore the Mandla Division was divided into two Divisions, North and South Mandla. These changes came into force with effect from the 1st April 1913 This re-distribution of areas should result in more efficient management.

during the year against 89 in the previous year. In addition 7 forest villages were started in the Northern Circle, while in the Balaghat Division of the Southern Circle 2 1 yotwari villages were taken over by the Forest Department, the compensation paid being Rs. 5,827. In the same Circle 8 villages were acquired by exchange. As regards the forest villages in the Melghat the Conservator, Berar Circle, remarks that a very large part of the population of that tract are in a state of uncertainty as to their real wishes and intended movements. He observes that as the Forest Department depends entirely on the Korku population for the exploitation of forest produce, the early completion of the working-plan of the Melghat Division to lessen the restrictions necessarily imposed in the new reserves and to regularize their working is very necessary. The Chief Conservator trusts that the work will be expedited as much as possible.

Shooting Permits.—In all 748 shooting permits were issued during the year against 759 in the preceding year.

To give effect to the Government orders regarding the destruction of pig and nilgai 62 special permits were issued in the Akola Division of the Berar Circle and 111 pig and 99 nilgai were killed in that district. It is stated by the Conservator that a large number of licenses issued in the vicinity of Amraoti are used for the purpose of trade in meat and hides of game and to check this abuse and to prevent the total extinction of all game in this locality he suggests that the number of permits must be restricted in future.

The Agricultural Department continued the operations to catch the wild cattle in the Bhongaon Reserve, but they succeeded in capturing only 4 animals. The Conservator considers that the assistance of Phansi Pardhis should be obtained.

The relations between Forest and Revenue Officers were generally most satisfactory and several Deputy Commissioners have recorded appreciative remarks on the services of Divisional Forest Officers. There appears to have been some slight friction in Balaghat, but matters now appear to have been satisfactorily settled.

In the Melghat there was some antagonism between the subordinate revenue officials and the Forest Department. The Commissioner, Berar, however has taken action in the matter and it is hoped that the arrangements he has made will prevent any further difficulties. He has expressed some dissatisfaction at the manner in which the orders of the Administration in regard to the introduction of restrictions and other measures in the Melghat have been carried out. The Chief Conservator will enquire into the matter during the touring season.

PACHMARIII,

Dated the 26tt November 1913.

Chief Con

M. HILL,

Chief Conservator of Forests,

Central Provinces.

Govt Press, Nagpur -No. 1175, Porests-5 2-14-405.

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved and Unclassed State Forest and Waste Lands during the year 1912-13

| Division | Range | Civil District | Name of Forest. | Area on 18t | July 1913. I | Added dur- jing the year. | Excluded or trans- ferred to other heads | Area on 30t | h June 1913 | No. and date of Notification of | Remarks. |
|---|----------------|--------------------------|--|---------------------|-----------------------------------|---------------------------------|--|--------------|-----------------------------------|--|---|
| | | or Territory. | | Acres | Equivalent in square miles. | Acres | Acres. | Acres | Equivalent in square miles, | addition or trans- fer, etc. | |
| 1 | , | 3 | 4 | \$ | 6 | 7 | 8 | 9 | 10 | 11 | 18 |
| NOR- 1 HBRN CIRCLE | | | | | | Ruserved | | | | | |
| Mandla (as it stood prior to ist April 1913), | | Mandia | Chabi Block No 53 | 2,7/5 889 968 | 4 | s | 5 96 8 | 2,280 884 | 1 | | Correction of area in accordance with the figures of Forest sur- veys. Excluded being spart of Samana |
| | Motinala | Dø. | Belpani , 60 | 29,564 | 46 | • | 23 | 29,542 | 46 | | spart of Samaria malguzari. Out of 22 acres an area of 19 acres excluded which was omitted last year and 3 acres which was wrong- by added last year. |
| | | | Remainder of A Class | 1,098,034 | 1,716 | | | 1,098 034 | 1,716 | | ry address tens hans |
| | | | Total A Class | 1,131,730 | 1,768 | 5 | 995 | 7,130,740 | 1,767 | | |
| | | | 1otal B-I Class | 513,824 | 803 | [| : Class. | 513,814 | Şoş | | |
| | | | Total tor Division | I,645,554 | 24571 | , | 995 | 1,644,564 | 3,570 | | |
| | | | | | | A CL | is. | | | | |
| Jubbulpors and Nar- singhpur (as they stood prior to 14t Apri 1914) | Dhanwahi. | . Mandia | Bamni, Block No 49 | 733 | r | 20 | ,, | 751 | 1 | | Area over looked by the Survey Party: hence included in the Reserve. |
| stood prior to 14t Apri 1917) | | Mandla and Jubbalpore | Remainder of A Class | 3,4,439 | \$18 | | 14 | 331,432 | 518 | | |
| | | | Jubbulpore Potal A Class. | 332,164 | 519 | JD. | 161 | 332,184 | \$19 | | |
| | | Narsingh- | Narsinghpur Lotal A Class. | 159,392 | 249 | *** | ** | 159,392 | 249 | | |
| | | | Total for Jubbulpore and Naminghpur Divi- alpus. | 491,556 | 768 | 20 | ati | 491,576 | 768 | | |
| | | | | | | | d Clau | | | | |
| Dameh | South Western. | Damob | Hanmathago. Block No 64 Gopalpura "65 | 10,764 718 | 17 | ł | 6c 90 | | 1 | Netification No 649, dated the act Adgust 1919 | Disforested, |
| | | | Falwa , 67 | 9,943 | 16 | | ••• | 10,013 | | Notification No 610, dated the 201 | . Afforested. |
| | 1 | | Remainder of A Class | 485,318 | 718 | | | 4\$5,3×8 | 758 | August 1912 | |
| | | | Total A class * | 506,743 | 791 | 80 | 80 | 506,74 | 792 | | |
| | | | Total for Division . | 506 743 | 159 | \$0 | Şq. | \$06,74 | 792 | | |

ANNUAL FORM No. 7—[PRESCRIBED].—Area of Reserved and Unclassed State Forest and Waste Lands during the year 1912-13.—(Contd.)

| | | Civil | | Arca on is | t July 1912 | Added dur ing the vear. | I xcluded or trans- ferred to other heads | Area on 30th | June 191, | No. and date of Notification of | Remarks |
|---------------------------|--------------|-----------------------------|----------------------|------------|----------------------------------|-------------------------------|---|--------------|-----------------------------------|--|---|
| Division | Range. | District Or Ferritory | Name of Porest | Acre . | Equivalent in square miles | Actts. | Acres | Acres | Equivalent in square miles. | addition or trans fer, etc | |
| provident road | 2 | 3 | 4 | \$ | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| NOR- THERN CIRCLE - | - | _ | | | | Rebervei | | | | ; | |
| (Cent d.) Saugor | Banda | Saugor | Sigdoni, Block No 10 | 167 | | "-0 | 67 | | 14 | Notification No \$32 dated the 23rd July 1912 | |
| | <u> </u> | | Chauki 1, 113 | 355 | ī | | 3 19 | 351*88 | 1 | Notification No. 880, dated the 24th October 1912 | |
| | | : | Dulch ipur " 132 | 22,075 | 35 | 13.46 | 31 46 | 12,057 | 35 | Notification No 421, dated the 26th June 1912. | |
| | • | | | | | | | | | Notification No 422 dated the 26th June 1912 | |
| | Khura! . | Do. | Bandri, Fast ,, 98 | 3,567 | 6 | *82 | 1*86 | 3,565 96 | 6 | Notification No. 452, dated the 4th July 1912. | |
| | | | | | | | | | | Notification No 433, dated the 4th July 912. | |
| | | | Bandri, West ,, 97 | 3,928 | • | | 23 30 | 3,804*70 | 6 | Not fight in No 915 dated the and November 1912. | |
| | | | | | | 2 86 | 17 97 | | | Notification No 949, date the 14th November 1912. | |
| | | | | | | | | | | Notifice ion No 952, dated the 14th Nevember 1912 | |
| | | | Barodias ,, 89 | 3,375 | 5 - | 9 10 | 3'76 | 3,366°60 | 5 | Notification No 950, ditted the 11th Nevember 1912 | |
| | | | | | | | | | | Notification No 95, dated the 14th November 1912. | |
| | | | 1 | | | 3 Bg | 2 52 | 1 | | Notificat on No. 941, d ted the 14th November 1912 | 1 |
| | | | | | | | | | | Notification No 954, dated the 14th November 1912. | |
| | Rehli | Do . | Mohh , | 20,195 | 35 | 60 | *41 | 20,172 8 | 32 | 1 | |
| | | | | | | | | | | E) | *Excluded due to correction of area. |
| | | | Baleh ,, | | | | 8 78 | | | 563, date i the 2nd August 1912 | |
| | | | Dewalpani 1, 9 | 12,76 | 1 21 | 2 80 | | 5 12,758 80 | 90 | 427, dated the 26th June 1012. | |
| | | | 0 | | | | | . 6.6.0 | | Notification No 428, dated the 20th June 1913 | |
| | | | Sondan ,, ri | x,690 | | 4.40 | 47 8: | 1,646-60 | | 56:, dated the 2nd August 1912 | |
| | | | Mund | | | 0'50 | | 1 ,,,,, | | Notification No 562, dated the sm August 1912, | |
| | | | Murga 15 34 | , | | 9'50 | 1 14 | \$76 50 |) | June 1912 | |
| | | | | | | | 1 | | | Notification No 426, dated the 26th June 1912 | |
| | | | Abehand ,, 13 | 13,86g | 21. | 14 66 | | 13,807 10 | 25 | | |
| | | | Chéola , as | 1,554 | | | 121 | | | Notification No. 033, dated the and November 1912. | |
| , | |] | Cheora ,, 32 | 1934 | | | | (94) | | Notification No 968, dated the 19th December 1912. | |

| | Division. | Range. | Civil District | Name of I crest, | Area on 15 | d July 1912 | Added dur- ing the vear | Lacinded of trans- furred to other heads | Area on 70t | h Junc 1913 | No and date of Notherition of | Remarks. |
|----------|--------------------------------------|----------|-------------------|-------------------------------------|--------------------|-----------------------------------|-------------------------------|--|-----------------------|-----------------------------------|---|---|
| | | | Territory | | Acres | Equivalent in square miles. | Acrc, | Acres. | Асгеь | Fquivalent in square miles. | addition oi trans- fer, etc | |
| | | 2 | 1 | 4 | · · | 6 | 7 | å | 9 | 10 | 11 | 15 |
| | NOR- THERN CIRCLE — (Contd) | | | | | | l | Forests, | | | | |
| | Saugor | Saugor | Saugor | Bishaupur, Block 43 | 418 |] | 3 20 | 6 70 | 414 50 | 1 | Notification No. 841 dated the 16th October 1913 Notification No. 844, dated the 16th | |
| % | | | | Jaisinghnagar Enet Block (10 44 | 1,104 | , | 15 03 | 42 82 | 1,076 21 | a | October 912, Notification No 841 dated the 16th October 1912. | í |
| | | | | Gonda: ,, 45 | 232 | | '16 | 34 | a31 92 | | Notification No 842, dated the 16th October 1912 Notification No 841, dated the 16th October 1912, | |
| | | | | Kesion ,, 47 | 925 | , | Q 15 | 10 03 | 924 12 | , | Notification No. 842, duted the 16th October 1912 Notification No. 841, dated the 16th October 1912 | |
| | | | | | | | | | | | Notification No. 842, dated the 16th October 1912. | *** |
| | | | | Barkheri 5, 48 | 163 | | | *50 | 169 70 | | Notification No 842, dated the 16th October 1912. | |
| | | | | Jaisinghungar West, Block No. 50 | , r,676 | 3 | 14:30 | 23 | r,689 B7 | 3 | Notification No 841, dated the 10th October 1913 Notification No | |
| | | | | Ranipura " 69 | 840 | , | 3 33 | 2178 | 839*54 | 1 | 842 dated the 16th October 1912 Notification No 454, dated the 4th July 1912. | ļ |
| | | | | Amakhurd " 63 | 880 | , | | 18 | 862 | I | Notification No. 455 dated the 4th July 1912. | <u> </u> |
| ř | | | | Bahadarper , 75 | | | | | | 1 | 184, dated the 17th February 1913. | |
| | | | | | | | | | | | 416, dated the 21st June 1973 Notification No. 417, dated the 21st June 1912. | |
| | | | | | | | 76 | 72 | | | June 1912. Not heation No. 423, dated the 24th June 1912. | ĺ |
| | | | | Rahatgarh ", 76 | 5,505 | , | *19 | 1 464 | 51054 90 | 8 | Notification No. 424, dated the 24th June 1912 | * Correction of area in accordance with the figures of |
| | | | | | 1111 | ,, (| J-22 | 26'3 1 | 2 | 411 | Notification No. 529, dated the 20th July 1912. | formed into a separate block owing to the dis forestment of no |
| | | | | | | | 1 | | | | Notification No. 420, dated the 20th July 1912. | |
| | | Decr | n- | ,, ,5.A Benswahi ,, s | 5,467 | 19 | 464 | 444 20160 | 464 | 10 | Notefaction No. | New block as per above remarks. |
| | | Deort 34 | Do, | Benswall 37 3 | U _A AV? | 10 | * | 47'60 | p ³ 410 to | 10 | Notification No. 2950, dated the 6th September 1896. | This area though disforested in 1890 was not includer in the form at that time. |
| Þ | | ,] | İ | | <u>L</u> | L | L | | <u>!</u> | 1 | l | |

| | | | 14716 | na W W / 676 | s me y | sar 191 | • 13. · | (001110 | / · | |) |
|--|---------------------|--------------------|--|---------------------|-----------------------------------|-------------------------------|---|-------------------------|-----------------------------------|--|---|
| Division. | Range. | Civil District | Name of Forest | Area on 1° | t July 1913-1 | Added dur- ing the year | Fxcluded or trans- ferred to other heads. | Area on 30 ^t | h June 1913. | No. and date of Notification of addition or trans- | Remarks. |
| | • | ar lerritorv | | Acres. | Lquivalent in square miles. | Acres | Acres. | Acres | Equivalent 10 square miles. | fer, étc. | |
| 1 | 2 | 3 | 4 | ź | 6 | 7 | 8 | 9 | to | 11 | 19 |
| NOR- THERN CIRCLE.— (Conclé.) | | | • | | | Reserved A G | | | | | |
| Saugor | Deon . | Saugor | Hathkoh Block No 2/ | 8,607 | 14 | | 31.36 | 8,5 8 5 74 | 14 | Notification No 916, dated the and November 1912. | |
| | | | Naharman 13 36 | 3,338 | s | | *37 | 3 .2 37 fi3 | s | Notification No. 880, dated the 24th October 1913 | |
| | | | Remainder of A Clara | 327,705 | 505 | | , | 323,705 | 504 | | |
| | | | Total A Class | 482,318 | 754 | 739 OX | 1,319*30 | 481,7,38 | 753 | | |
| | | | Total for Division | 482,318 | 754 | 739 01 | 1,319 30 | 481:738 | 753 | | |
| Hoshang. abad. | | Hoshang- | Total A Class | 601,157 | 939 | | | 601, 57 | 939 | | |
| | | | Total for Oversion | 601,157 | 939 | | | 601,157 | 939 | | |
| | | | | | | AC | lası | | | | |
| Seom | Chhapara. | Sconi | Bijna, Block No. 21 | 27, 561 | 43 | | 17 | 27,544 | 43 | Notification No. 4974, dated the 8th September 1902. | Excluded which was omitted before. |
| | Dhuma . | Do | Dargarh North ,, 1-Q | 1,161 | 2 | 241 | 41 | 1,130 | 3 | | Excluded: due to correction of boun- dary line, |
| | Nerbudda | Do | Ghurwara , 1-J Remainder of A Class | 192 491,503 | 768 | ⁷ | | 181 491,593 | 768 | | Do do. |
| | | ! ! | Total A Class | \$20,417 | 813 | 7 | 76 | \$20,348 | 813 | | |
| | | | Total for Division | \$ 20,41 7 | 813 | 7 | 76 | \$20,348 | B13 | | |
| | _ | | | | | AC | lass. | | | | |
| Chhindware | Sillewani- ghat. | Chhindwar <u>n</u> | | | 9\$ | , | 204 | 61,278 | 95 | Notification No 1107, dated the 18th December 1912 | 1 |
| | | | Markasur ", 109 | t,652 | 3 | (a) 11 | (b) 9 | 1,654 | 3 | (a) Notification No. 395, dated the 12th June 1912. (b) Notification No. 395, dated the 12th June 1912. | s > soreer monnosee. |
| | | | Remainder of A Class Total A Class | 363,072 \$25,206 | §68 □ 666 | | 213 | 353,072 | 568 666 | Jone 1944 | |
| | | | | | | | Clau | 436,004 | 908 | | |
| Chhindwara | , | Chhindwara | Total B-I Class 🚥 | 32,853 | şx | . | *** | 5 3,855 | ģī. | | |
| | | | Total for Division | 459,059 | 717 | 71 | 213 | 448,867 | 717 | | |
| } | | | Reserved Forest, A | 4,160,117 | 6,500 | 852 | 2,683 | 4,158,306 | 6,49B | | |
| | | | Reserved Forest, Bai | 546,677 | 854 | | • • | \$40,67 <i>1</i> | 854 | | |
| 3 | | | Total for Northern Ohnic. | 4,706,804 | 7,354 | 862 | ± ₃ 683 | 4-704-983 | 7,352 | | |

| | | Civil | | Arta on 18 | July 1911. | Added during the vear | Excluded on transferred to a ther heads. | Area on goth | June 1913. | No and date of Noticetion of addition or | Remarks. |
|------------------|------------------|------------------------------|---------------------------|------------|-----------------------------------|-----------------------------|--|------------------|-----------------------------------|---|-------------------------------|
| Division | Range. | District or Territory. | Name of Porest. | Acres. | Equivalent in square indes. | Acres. | Acres. | Acres. | Equivalent in square miles. | transfer, etc. | |
| 1 | | | 4 | Š | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | | | | | Reserved | Forests | | | | |
| SOUTHE | RN CIRCLI | i,(Conta.) | | | | В | lløss. | | | Notification No 967, | , |
| North Chands. | Warora | Chanda . | Warora | 9,184 | 15 | #1 1 | 5,095 3,674 | 415 | : | dated the 19th November 1912 and No 428, dated the 1st hlay 1913, | |
| | Moharii | 236 | Moharlı . | 13,841 | #2 | | 150 1 ₂ 553 | 12,138 | 29 | Notification No. 967, dated the 19th Nov- ember 1919, and No. 522, dated the gth June 1913. | |
| | Havell | *** | Havelı . | 33 119 | 52 | | 3,716} 1,810} | 28,193 | 44 | Do Do. | Disforested fo cultivation, |
| i | Brahmapu- rı. | ,44 | Brahmapuri | 24,973 | 38 | | (50) 1,510} | \$2,915 | gó | Notification No. 9679 dated the 19th November 1913, and No. 428, dated the 1st May 1913. | |
| | Gunjewahi . | | Gunjewahu • | 95,179 | 39 | | 219 194 | 24,166 | 37 | Notification No. 967 dated the 19th November 1912 and No. 522, dated the 9th June 1913. | |
| | | | Remainder | 99,211 | 155 | | | 99,211 | 155 | | |
| | ļ | | Total B Class | 205,50 | 321 | | 18,471 | | 392 | | |
| | | | Total for Division | 915 24 | 1,430 | 788 | 18,471 | 897,558 | 1,403 | | |
| | | | | | | 10 | lass. | | | | |
| South Chanda, | Ghot | Chanda | Ghot | 94,01 | 4 147 | 228 | | 94,242 | 747 | Notification No. 55, dated the 15th January 1913. | |
| | Mar- Lhanda. | | M arkhand a | 144,76 | 4 226 | *3,481 | t4,531 | 143,714 | 215 | *Notification No. 55, dated the 15th January 1913, †Notification No. 56, | l |
| | Sironcha. | | Sironchia | . 189,13 | I 291 | (a) 6,492 (b) 1,010 | | 196,647 | \$07 | January 1913. | |
| | | | | | | | | | | 673 — XIV - 5 - 56, dated the 25th August 1912. (5) Notification No. 465, dated the 19th May 1912. | Simplification of |
| | | | Remainder | 179,95 | 3 28 | | | 179,953 | 281 | _ | boundary wit Ahiri Estate. |
| | | | Total A Class | G07,80 | 95 | 11,32 | 4,53 | 614,556 | 960 | | |
| | | | | | | Į z | Class. | | | | |
| Do. | - Markh and | a, Chanda . | . Markhanda | 38,4 | 73 6 | o 61 | | 39,089 | 6: | Notification No. 55, dated the 15th January 1913. | |
| | Dhaha | . " | Dhaba | 23,4 | 33 | 7 | 7,74 | 15,688 | a | Notification No. 506, dated the 19th July 1913. | |
| | Strongha | ** | Sironcha | ,. 42,4 | B8 6 | is | 6,49 | 35,991 | 5 | 6 Secretariat No 573 XIV - 5 - 36 dated the sett August 1912. | d is |
| | 1 | | Remainder | 192,5 | 79 1 |); | | 122,379 | 19 | L | |
| | | | Total B Class | 216,7 | | | 15 14,34 | | | [| |
| | | | Total for Division | 834,6 | 35 1,3 | 11,8 | 10,7 | 13 92/5/0 | | | |
| | 111 | | | | | 1 | A Glass. | 2 4,345 | | 7 40 | Correction of are |
| Nagpai Wardhi | f- Arti | Wardha Nagpur and Wardha | Remainder | 453,4 | 347 515 7 | 09 | - | 4 \$3, 61 | 1 | R 9 | |
| | | TYARUIZ | Total for Dylsion | 457. | 989 | rid | | 2 457,96 | 0 7 | 16 | <u> </u> |

| D a | | Civil District | | Area on 18 | it July 1912. | Added during the year | Excluded or transferred to other heads. | Area on 30t | h June 1913. | No. and date of Notification of | |
|-------------------|------------------|-------------------|--------------------|-----------------|-----------------------------------|-----------------------------|---|-------------|-----------------------------------|---|--|
| Division. | Range. | or Territory | Name of Forest | Acres | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | addition or transfer, &c. | Remarks. |
| j | , | 3 | 4 | 5 | 5 | 7 | 8 | 9 | 10 | 11 | 13 |
| SO: | ITHERN CI | יו ויס מ | | | | Reserved | Foresis. | _ | | | |
| Balaghat | Sonawani, | i | Lohagn " | | | _ 40 | Clast. | | | N-45 -4 N- 00 | |
| - Transporter and | 1444.211,1 | Dangue | Santuran | 349 | *** | 134 | 249 | <i>4</i> | | Notification No 881 dated the 24th October 1912. | Disforested for cu tivation. |
| | Dhansua | | North Farna | 61,010 | 96 | 30 | *** | 61,040 | 96 | dated the 4th January 1913, | Afforested to include site of tank an rest-house, |
| | Diagon | | Nazur Polest " | '' | *** | 1,236 | *** | 1,236 | 2 | Notification No 200 dated the 18th March 1913. | Afforested for pro- servation of for ost. |
| | Baihar | | Khalondı | 21,184 | 33 | 29.0 | \$8 | 31,126 | 33 | Notification No. 84, dated the 21st January 1913. | 1 |
| | | | Sarekha | 47,478 | 74 | 57 | | 41,595 | 74 | Notification No 8; dated the 21st January 1913, | To effect cx- |
| | | | Remainder | 493,686 | 771 | ••• | ., | 493,686 | 771 | | |
| | | | Total for Division | 623,607 | 974 | 1,395 | 307 | 6,14,623 | 976 | | |
| Biandara | Bawanthari | Bhandara. | Paunara | 405 | 1 | 4. 0 | lais. 405 | 460 | .,, | Notification No. 392, dated the rith | 1 |
| | | | Kumargaon | 2,426 | 3 | 438 | *** | 1,854 | 3 | June 1912. Notification No. 398, dated the 11th | Dø, |
| | Galkhuri | | Umrjheri | 19, 001 | 45 | *76 | 181 | 28,998 | 45 | June 1912. Notifications Nos *488 and ±490 dated | Correction of are 3. |
| | Partabgath. | Bhandara,,, | Bukı Mendki | 2,884 | ś | 159 | 15 | 2,869 | 5 | the 17th July 1912 Notification No. 490, dited the 17th | } |
| | | | Nawegaon | 12,496 | 20 | M/9 | 267 | 13,999 | 90 | July 1913. Notification No 490, dated the 17th | D ₀ , |
| | | | Gumgaon Pipalgaon | 2 8 ,537 | 35 | 68 | ın | 22,605 | 35 | Netification No. 490, dated the 17th | |
| | | | Remainder . | 466, 901 | 416 | *** | *** | 266,901 | 416 | July 1912. | J |
| | | | Total A Class | 305,640 | \$24 | 584 | 768 | 335,456 | 524 | | |
| Do, | Do | Do | ••• | 5,479 | 9 | B (| Nass. | 5,479 | 9 | | |
| | | [{ | Total B Class | 5,479 | 9 | *** | *** | Š:479 | 9 | | |
| | | | Total for Division | 341,119 | 533 | 584 | 768 | 340 935 | \$33 | | |
| Bilaspur . | East Lor- mi. | Bilaspur | Korı ". | 6,524 | to | 4 C | lass. †14 | 6,528 | 20 | *Notification No. 437, dated the 5th May | 1 |
| | West Lormi, | ,- - | Deveara | 30,024 | 47 | * I | †3 . | 30,022 | | rgrs. | 1 |
| | Kuajati | | Salangi Gatwa | 33,883 | \$3 | 141 | ts. | 33,882 | 53 | 438, dated the 6th May 1913 | daries in accord |
| į | Pantora, | | | 481 | 1 | *** | \$ | 476 | 1 | Notlfication No. 242, dated the 3rd March 1913. | AMERICAN INCOME. |
| | | | Remainder | 354,297 | £ \$4 | | | 354,297 | Š 54 | | 1 |
| | | | Total for Division | 495,20g | 605 | 19 | 23 | 425,205 | 665 | | |
| Korth- Chanda. | Gunjewahi, | Chanda | Gunjewah: | 115,t08 | 180 | 4 0 60 118 | láss, | 115,895 | ≱§1 | Notification Nos. 525, 526 and 527, dated the 1eth | Reafforested is in clude area unde Itrigation Depart |
| | | | Remainder | \$94,62A | 929 | 210 | | 594.626 | ,,,, | june 1913. | irrigation Depart ment. |
| | | ĺ | Total A Class " | 79,734 | 1,109 | 788 | | | gag | | |
| |] | | | , "91/34 | 1,409 | 700 | 414 | 710,523 | T ₂ 116 | | |

| | | Civil | | Area on 18 | July 1912 | Added during the year, | Excluded or transferred to other head. | Arca on 30th | h June 1913 | No. and date | |
|-------------------|---------------------|------------------------------|-------------------------|---------------|----------------------------------|------------------------------|--|--------------|-----------------------------------|---|---|
| Division. | Range | District or Territory, | Name of Forest. | Лсте ч | Equivalent in squite niles | Actes | Acres. | Acres | Equivalent in square miles. | additi n or transfer, etc. | Remarks. |
| 1 | , | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | li . | 13 |
| | | | | | | Reservan | Forest's | | | | |
| | | | | | 1 | | jası. | | f | | |
| Kaipa | Sihawa, North, | Raipur . | Sihawa, North | 148,/77 | 2]2 | | 1,504 | 147 173 | 230 | Notification No /2 diffed the 3rd Sep fumber 1912 | |
| 1 | Sih iwa, South, | ., | Sihawa South | 159,961 | 250 | 1,601 | *** | 161,465 | 253 | Notification No 713, dated the 3rd Sep tember 1912 | To effect ex- |
| | | | Remainder | \$71 003 | 6 98 | | | 574,603 | Br.d | | |
| | | | Total for Division . | 883 371 | 1,380 | 1,504 | 1,604 | 883,241 | 1,380 | | |
| | | i | Reserved Forest, A | 4,043,255 | 6,318 | 15,543 | 7,235 | 4,051,563 | 6,331 | | |
| | | | Reserved Forests, B | 437,759 | 684 | 615 | 32,713 | 4,05,661 | 634 | | |
| | | | I grad Southfi & Circle | 4, \$81,014 | 7 002 | 16,158 | 39,948 | 4,457,224 | 6,965 | | |
| : | | | | | Reserved | CORPSTS 1 & DEPART | DBR 189 IRR MENT | HOITADI | | | |
| | | | | | | A Cla | ır. | | | | |
| Balaghat | Sonawani | Balaghat | Sonawani . | 86 | ••• | 159 | - } | | | Notification No 1002, dated the 1 th December 1912. | Transferred from charge of Forest Department for the following works: Katanghen Lank. |
| | | | | | | 122 | } | 747 | 1 | Notification No. 1093, dated the 11th December | Chapanala ,, |
| | | | | | | O 23 | | | | 1912. Notification No 62, dated the 16th January 1913. | Jamunia ,, |
| | | | | | | 380 | j | | | Notification No. 192, dated the 18th February 1913. | Sarati Nala |
| | Bashar | ist | Sarekha | 34 | • • | 94 | a aap | \$8 | 111 | Notification No. 57, dated the 15th January 1913. | Kutrı Nala 🔑 |
| | | | Bhanrapahar | 191 | 198 | 22 | 110 | 22 | 107 | Notification No 1003, dited the 28th November 1912 | Jagla " |
| | | | Remainder | 100 | *** | | | 100 | | | |
| | | | Total for Division | 220 | | 707 | | 927 | t | | |
| į. | ļ | | | | | A | lass | 1 | l | | |
| Bhandara | 140 | Bhandara | | 637 | 1 | .111 | | 637 | | | |
| | | | Total for Division . | 637 | | | | 637 | | | |
| | [] | | | | | ⊿ Ci | us, | | | | |
| North- Chanda. | Moharlı Havell . | Chanda | Moharit . | 2,066 1 | 3 | 66 | ** | 2,072 | | *** | Naicewar Tank. |
| | Brahma- | | Brahmapuri . | 4,794 | 8 | 8 | 100 | 4,803 | 8 | •" | Ghorajheri " |
| | Gunjowahi | | Gunjewahi | 2,328 | 4 | 788 | | 3,116 | 5 | , | Asola Mendha |
| | | | Total A Class | 9,189 | 15 | 858 | 111 | 10,057 | 15 | | |
| | | | | | | ВС | lass. | | | | |
| North- Chanda. | Moharii | Chanda | *** | , | " | ı ' | , ,,,,,,, | 3 | *** | | |
| | | | Total B Class | | | <u> </u> | | ļ | | | |
| | | | Fotal for Division , | 9,191 | - | 868 | 155 | 20,019 | - | | |
| - | | <u> </u> | | l | l | <u> </u> | | <u></u> | 1 | | |

| | | L 1 Di iu | | Airni | ji li r | 1dkd 1 11 - 11 34 u | Palilul r tran fe rel to other leal | Ates on 3 f | h June 1911 | No and date of Notineat on of | Remarks |
|--|--------|-----------------------|---|-------------|--------------|---------------------------|---|-------------|-------------------------------------|----------------------------------|--------------------|
| D \text{\text{terion,}} | I i c | Lernte is | Name of Eare t | Acr s | I grades to | Actes | Aιι, | Acres | Equ v ilent in s ju ile miles | iddition or transter, & e. | Keinara |
| ī | 7 | 3 | 4 | ś | , | 7 | | 9 | 10 | ī g | 12 |
| SOUTH- FRN FIR(L1 (Coneid.) | | | | Re | агрува Горв | STS UNDER T | | OH DEIAR M | b nt | | |
| South Chanda | Dhaba | Chriida | Total for Division | 13 | | | | 13 | | | |
| S alana | Baled | Drug | | 4 °6 | 1 | 1 | lass. | \$£6 | | | |
| Ralpur ************************************ | Dalga | Drug | Total for Division | 586 | 1 | | <u> </u> | 580 | <u>-</u> | | 1 |
| | | | Total under the Irriga | <u>-</u> - | · | | | 1 | | | |
| | } | | tion Department. | 10,632 | 27 | 15 5 | ! | 12,207 | 19 | | |
| | | 1 | B Cizes | 15 | "7 | 13.5 | | 12,207 | 19 | | |
| | | } | Grand fotal . | 10 647 | 17 | 1,975 | | 12,722 | rg | | |
| | 1 | İ | - | | - | | | ļ | · | | |
| | | | | R | seeried Fore | ets under th | r Public W | ores Depart | MRNT. | 1 | |
| | | | | | 1 | 1 | Class. | 1 | 1 | | |
| Bhandara | | Bhandara. | *** | 18 | | | 1 | 81 | | 1 | |
| | 1 | | Total for Division | 18 | | | | 81 | *** | | |
| | | | | | | 10 | lau | | | | |
| North Chanda, | Haveli | Chanda . | Haveli | 40 | *** | 77 | | 117 | | h | Por quarrying pur- |
| f Paulan, | Moharh | | Mohaili | | | 15 | | 15 | *** | Įs. | |
| | | | Total for Division | 40 | - | 92 | <u> </u> | 132 | | | |
| | | | | | | 4 | Class, | | | | |
| South Chands, | *** | Chanda | | 151 | | <u> </u> | | 151 | | | |
| | | 1 | Fotal A Class . | 151 | | | | 151 | | - | |
| | | 1 | | | | В | Class | | | | • |
| Do. | | Chanda . | | 157 | | 4.1 | | 187 | | | |
| | | | Total B Class . | 187 | 050 | | | 187 | | | |
| | | | Total for Division . | 338 | | | | 398 | | | |
| Magana | | | | | | I | Class. | | | | |
| Negpur Wardha, | • | Nagpur and Wardha. | ** | 152 | *** | | | 132 | *** | | |
| | | | Total for Davision " | 133 | | | | 138 | | | |
| | | | Total under the Public Works Department. | | | | | | 1 | | |
| ! | | | A Cigas B Class | 104 187 | | 92 | *** | 496 187 | .' | | } |
| | | | Grand Total | <u></u> ∮gī | 1 | 92 | | 683 | , | , | |
| - | · | | | | | | | <u> </u> | |] | |

| | | Ci I Di trict | | Ar rougst | . Jul 191 | A lact tring the term, | I reladed or trans for red to other heads | jici u ool | h June 1313. | No and date of Notification of | |
|-----------------------|--------|---------------------------------------|------------------------|------------------|--------------------------------|------------------------|---|-------------------|----------------------------------|---|--------------------|
| Divicion | Kinge | ol Territori | P me of true t | Acis | l pusalent negu ic nulcs | Acre | Alro | Acies. | l partilent in spair miles | additi n oi rinster, & c | Remarke. |
| I | 2 | , | 4 | 5 | 6 | 7 | 8 | , | to | ıı | 13 |
| BFRAR GIKUL | | | | | | Reserve | lor sr | | | | |
| | | | | | | 1 cl | ist | | | | |
| Velghat | | Am i) i | All E at 9t | , 12 973 | 1,161 | | | 13, 1 | 1,161 | N01 | M-4 - P 1 P |
| | | 1 | V nus Palalban | , (2 | II | 671 | | 1746 | 13 | No. 183 and 190, dated the 17th Feb- roary 191, | "C'. |
| Amraoti . | | Do | [| | | | | | | mark teri | |
| ., | | 1 | | | | | | | | | |
| 1 | | | All oth r I ares s | 2) 1-4 | 45 | | | 39,341 | 46 | | |
| | | | Tini | ²() to | 57 | ر٩ ₄ | | 37 (1)0 | 59 | · | |
| | | | Cham Mark and Carolin | | | | | | 0. | No 316, dale, the | Afforest J |
| Buldana | | Buldana { | All other Lore t | 5 /s.) 16,435 | 8; 15a | ٥ | | 56 G Jn 95 435 | 130 | rjth April 191 | whosesea. |
| , | | 1 | lelol | 153,345 | 9 | 70 | | 153,475 | 230 | | |
| | | 1 (| Gonlaulti | 1 3,409 | | | 20 | \$3,,59 | 20 | No 149, dated the | Correction of area |
| Ycotmal | | Yuotmal | Dha sal | 6,\$ I | t! | 59 | | ەر9ى | tr | No 377, dated the 9th April 1913 | |
| Keotinai | | 1.00 | Ganganmal | 8,500 | 14 | 27 | | F 527 | 1.5 | No. 372, dated the 9th April 1913. | } Afforested. |
| | | | All other Torests | 07 IS3 | 490 | | | 0 (95 | 180 | den Abere 1913" | , |
| | | ` | fotal | 312 275 | 1 55 | 86 | ופ | 74 ,3)1 | 535 | | |
| | | 1 | Medsi | / '>ɔ~ | 11 | 23 | | 6,5 2 | 11 | No 367, dated the jth April 1914. | ז |
| | i | | Chikalwat | 21 RIO | ,4 | 6 | 50 | 21,,69 | 31 | No 170 dated the | Afforested. |
| | | | | | | | | k | | gth April 1913. No 371 data 1 the | Da .forested. |
| Akain | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | | | | gth April 1913 | |
| | ļ ; | | Patur | 1,105 | 17 | ' | | 11,113 | 17 | No 364, lated the oth April 1914 | Vitolested. |
| | ļ | | Various Babui Pan | 1 82- | 3 | | ه | 165 | 3 | No tagt, dried the rith Ducember | Disforested. |
| | | 1 | All other Love to | C 1/3 | 97 | | | 62 403 | 07 | , 141., | |
| | | | kolni | 101 (02 | 162 | 38 | 52 | 103,959 | 161 | | |
| | | 1 | Grant I tal of (la - | 1,178 966 | \$,1.4 | 8;8 | 72 | 1,79,763 | 9,155 | | |
| | | | | | | r (| l est, | | | | |
| | | | | | | • | | | | | |
| Bleighat . Amraoti | *** | Amr iot: Do | Ali Lorusts . | 7,592 22,585 | 29 | | | 3,592 12,585 | 19 | } | |
| Buldana | . | Buldana | Do. | 5,610 | , | • | ,, | 5,619 | 9 | | |
| Yeatmal | | Yestmal | Do | 19 440 | 30 | | | 19,440 | 30 | | |
| Akola . | | Akola | Do. | 13,470 | 31 | _ <u>ن</u> _ | <u>. </u> | 13,470 | 21 | | |
| | | | Cuand Total of Class B | 53,715 | 84 | | | \$3,715 | 84 | | |
| | | |] | | | | Class. | | | | |
| | | | ļ |] | | , | 694 (a) | Ь | | | |
| Amwoti | - | Amraoti | A11 Forests | 115,710 | 37 8 | 1 1 | 8,051 (b) | 104,972 | 164 | (a) Nos 180 and 190 dated the 17th Pebruary | Transferred to A. |
| | | | | | | | | | | 1913 (b) Non 185 to 188, Crisi the 17th | Disforested. |
| Buidana . | | Buldana | All I orests | 126,661 | 198 | 244 (f) | 11,026 | 155,879 | 191 | February 1913 (c) No 1143, dated the 17th July | } |
| | | | | | | | | | | 1912 | |
| | | | | | | | | | | Nos 643 to 647, dated the soth August 1913. | Distorested, |
| | ł | 1 | i | I . | 1 | 1 | i | I | ļ | No 397, dated the 19th April 1913. | .) (|

| * | GLAD' T-LORE PE | Cni | iga o _r Azembarani | Λι (Ι | | Alki i t | Ix in ici (t. ns t. r. l.t. oil c. hc. l. | ! | հ J ս յր | No a llate of | and and deliberress The |
|-----------------------------------|-----------------|------------------|--|-----------|-----------------------|-----------------|---|------------------|-----------------------------|--|---|
| Day of | Ι٦, | Ditit Talt | Nm Hrt | A rc | l junk t ju m l | , , | 1 | A | I val t ms to micr | Voti of a table to the training trainin | Rema ! |
| | 3 | 3 | 1 | ; | 6 | 7 | 8 | 9 | IO | 11 | 13 |
| filk 1 k Circ I l — Coi I j | | | | | | rvin Los | - (outil) | 71) | | _ | |
| Veota il | | Yenimai | All Eo ests | 40)I | 6.5 | († ()5 44 | } (*) 1 | ۇ راپ | Clo | () Nostal) intitle (ti July 1) pr Nos4) tila tet the 1 h Ma | Corr ction clares. |
| | | | | | | | | | | 1013 | 71 ineferred from Akola Division. |
| | | | A.11.1 | 09. | | 4.3 | | | _ | (f) Nos 18 t lody latel the solution of the latel the solution of the latel the solution of the latel the | Co rection of area. |
| Akola | | Akola | All 1 mests | £9 08∙ | 1 10 | (L) 18 | 3 f z a | 8c 29 1 | 16 | (i No 169 dred the 1th April 1913 No 41 to 40f in tel the 221 l Ap il | |
| | | | | | | | 7FI 5-14 | | 24 | No 1113, il fed the 1 th July 1912 | from tened to Bul- dan i Division I constined to Yeot- m d Division. |
| | | | Grand total of the | 37,94 | 1 123 | 6,0°7 | 70,103 | 11 798 | f,117 | | |
| Yeotmai . | | Ycotmal | All Fore to | 9 791 | 15 | D | Class | 96), | 15 | | |
| Alola | | Akola | D ₀ | 19 5 | 1; | | 6,,60 | \$ °5 | 9 | No 407 and 408 dil the 2200 Aplri3 | Dislorested |
| | | | Cr nl letil of (la s l | | 31 | | 6,760 | 1516 | 21 | | : |
| Nimer | Տաք ոյլ | Ninar | Crand Potal of all Chaste in Betar Sing Ji | 2,19",575 | 347 | 6,905 | | 103,455 | 7,78) | 10, t S 11701 | Due to correction of |
| | | | Other I orests | 40,2*} | r ₃ | | | 40 2°9 | 63 | lett r Nr 1 d tel th 15tl Apil 1911, | foundty line, |
| | | | Tetal Range | 61,703 | 96 | | Ros | 61 4 9 5 | 96 | | |
| | Paplod | D ₀ , | Coga pur | 8 117 | 13 | 1,30, | 1 | 9,420 | 15 | loicet Suiveys letter No 1017 dted the oth | Concestion of area |
| | | | Bhainea Jho'pura and Dongaria, | | | 51,364 3 407 | | \$1 26h | 80 |) No hig G-577, } dated the 8th July 191 | frinsferred from Bhunsa Range, |
| | | | Oth 1 Fo ests | X1C, K4 | 182 | 1 40/ | tes | 3,497 I (,151 | 5 182 | /]ա կ ւցւ | |
| | | | Total Range | 12, 47(| 194 | 55,975 | <u>.</u> . | 190 545 | 282 | | |
| | Cherdni | no | Авиг | 70 947 | 111 | 677 | | 7 1 524 | trá | letter No 1017, disked the 10th August 1919 | į |
| | | | | | | | | | | (b) No 1119 G-157 dated the 8th July 1317 | 3, 11 msferred from Bhunsa Range. |
| | | | Mandw1 | • | | (h) 47,234 | (f) an | 47 ,3 1 9 | 74 | (f) Lorest Survey's letter No 1141, dited the 12th September | Conceinn of wea, |
| | | | Other Portsis | 121,74/ | Igo | ber | • | T\$1,357 | Iĝ: | J syrs. | - |
| Aprillanda - Taribia | | | Total Runge . | 192,304 | 301 | 47,8rz | 22 | 240,003 | \$76 | | |

| Division | Pa: | Lu l District or le ritore | N n fict t | \r 11 | t j | Alil din de yen | I h k i or i ne fer i t otle le i | Ara p | th From | N ildte f Ntil t n i | [cla 1} |
|--------------------------------|-------------|----------------------------|---|-------------------------------------|-------------------------|-----------------------|--|--------------------------------------|-----------------------------------|--|---|
| | 1 |) in the second | | Acr | l just nt i q mik | A | Λτ | ٨٠ | I feed al s store m k | | |
| 3 | Ţ, <u> </u> | | 4 | | 6 | | | 9 | 10 | 11 | <u>C2</u> |
| BI KAK CIRC I I (Corch) | | | | | Rir | inlesi 110 | — La tl1 | | | | |
| Nimus . | Bhain 1 | Nimi | I hainen Jholi i n l I i l Man lu | 41 ~(f 3 lo 1 1 | 5 | · | 51,261 4 47,731 | | | ∖No (rյGi-779 did ldic 8th J}th 191* | Fra started to Inplot Kang. Fra neferred to Chandal Range, |
| | Other | Do | lotal Raige All eller lorest 1 tal Divi i 10 | 101 905 5 C 546 | 15) q | 10, °5 | 16 1 5 | 3 (95 | . (8) | | |
| Petu } | Ranqur | Puni | Khar gondi Lodha ko Puh thera | 2 775 2 775 12 130 | 13 4 tg | 149 | 2 477 13 | 205 4 01 12 117 2(1 | 30 6 | * Secreta nat letter N 910-NV 559 dat 1 the | Iransferted from |
| | | | I adi I adi I adi I adi I adi Bachwa Pastal a Do lawani | ος, ο 7 13 ε α 6 | 47 1 | 11 | 101 2 4 | 0,136 401 1 037 | 1/ 1 | and November | D sforested, |
| | . | | Other Forests | 22 3 g(\n_1 | 151 | ↑r H9 | †2 5g/ | 9570 | 119 | | |
| | Agu , | Do. | Purji Dhans Gwiri Dhapara | 93 145 193 995 920 | 1 1 | 20 | at d | 82 0 6 1 1 01* 7**1 797 | 2 2 1 | * Secretar at letter Ne 310—XIV eg, dited the or i November 1914 | fransferred from B I. |
| | | | Amdhan i Saliwira Oiliei Lore ts Lotal Ringe | 73 79/ 1, 90 1 7 ° 161,9 J | 215 3 3 | 6 *_6 | 31 | 7 7(5 x,fgf r, ,8 1(1,f 3 | 115 3 | i No 15 elited the 11th July 1917 | Dı farestad. |
| | Saonhgarh | Dc | Phopin (North) Gawas in | 1 ₇ \$19 19,565 | # F | 41 719 | | 13 \$ 9 20,2 ⁹ 4 | 4 32 | Secret 1st letter No 310-XIV get 1sted the 201 November | Iransfeired from 1 I |
| | | | Chikhii Other Loic to Iotal Range | 2,0/0 51,*13 58,501 | 3 50 138 | 764 | .go | 7,681 21, 48 89 071 | 3 50 130 | Ne 164 dated the rith fuly 1912 | Digfore steds |
| | Fapts | Do. | Pipli i Mohdu Khamapui Chun | 25 °,7 25 y2 20,1 0 10,040 | 40 11 32 30 | 57 | .S 19 4 | 25 742 75 986 20,451 19,030 | 10 4 [†] (2 30 | * Secretarist letter No gro-XIV 5-9 d ted the 21d November 1912 | Fransfured from B I |
| | | | Nilgath Majarwani Other Forests | 24514 21 503 50 849 | 13 18 98 | 13 11 | | 5, 67 1 ,574 6)40 | 78 18 | * No 4112, dited the 11th July 1914 | Distorested |
| | Dabk. | Do . | Total Range Piparia K ilapakhan | 167 G12 18,101 17,420 | 262 28 27 | 281 1 | *50 | 167 G3# 18 102 17,615 | | Secreta it letter. 1 No no-XIV- 513 dated the 2 and Notember 1 1912 | Ir neferred from B |
| | | | Patia Satkund Sukhi " | 14,443 27,1 g 584 | #3 43 I | | t 187 49 | 14 442 17,012 535 | ^3 4 ¹ | No 460, dries the rith July 1912 | Disforested, |
| | | | Other Pocests Total Runge | 1,116 78,863 | 193 | 190 | A37 | 1 116 ,831 | 11, | J | |

ANNUAL FORM NO. 7.—[PRESCRIBED].—. Irea of Reserved Forests, Protected Forests and Unclassed or Public Forests, Land and Leased Forests in 1912-13—(Concld.)

| ĕ_−> messa s | 4. Alberta Tytolog Til | | T k various of a supplement to | to patern X | # T N 1144 | IN PROPERTY. | ner summe ren | HAME ASSESSMENT | n. a. a. rankari | | NAME OF TAXABLE PARTY OF TAXABLE PARTY. |
|-----------------------------------|------------------------|-------------------|--|--|-------------------------------|-------------------|---|--------------------------|----------------------------------|---|---|
| Dirieca | 1 . | Civil Di trict | , me od I ac c | ise on s | ljakri | Ald d lume the | I v hided or tight ferred to oti er heads — | Are n soll | unc 1913 - | No. and date of Notification of addition or fransfer, etc. | Rı marks. |
| | | l Titors | | Λιn | I qual nt au parc malcs | 10 65 | 1 er | Λιικ | Pquir dent in square miles | | |
| I | 7 | 3 | | 3 | , | 7 | 8 | 9 | 10 | 11 | 12 |
| BI RAR CIKGI I.,- (Concid) | | | | | | p | | | | | |
| Betal | Sacrimen- dha | Be'ul | han almen lha Kala pani Dhaba | 20,111 9, ⁰ 17 \$.704 | 32 15 | . 11 (com | | 16,779 9,781 5,755 | 26 13 | Secretarint letter No. 910—XIV- § 33, dated the 2nd November | Transferred from B-I. |
| | | | P toli Gloral Other I prests | 23 195 8,862 2,912 | 36 14 5 | | 18 | 24, 01 8,614 2,900 | 36 14 \$ | No 467, dated the 11th July 1917. | Distarcated. |
| | Bhowan | ps. | fot il Range All ther lorest. | 70751 | 111 | *6 | +1,-97 | 67,364 9*,758 | 105 | | |
| | Çirb | | Tetal Division | /(0,263 | 1,188 | 2 50. 100,3 8 | (1032 | 75(,101 | 2,367 | | |
| | | | lat i A (lees in Kinu in lo inl | 1,137 331 | 260 | Riserven (In. | 1 | 103 1941 | .430/ | | |
| Limit | All Ringe | Namar . | All Toruts | | | | 150 | | | Nos gos and gos, difed the obth October 1912. | |
| | | • | Ical Divisi n | 109,957 | 206 | | 16,059 | - | | | Correction of area, |
| Setul . | Do. | Betni | All Forests | 76,919 | 120 | (3 18 | (60 304) | 4,981 | | Nos 462 to 467, drted the 11th July 1912, | Dreforested. |
| | | | | | | | | | | Secretariat letter No 910-XIV-5 53, unted the aud November 1912. | (1398. |
| | | | 1443 | | | <u></u> | | | | .1 | tren. |
| | | | lotal Division | 14,777 | | . | - | | _ | • | |
| | | | Nimm and Betal | | - <u>-</u> | 18 | - | | | - | |
| | | | Nimn and Betal. | | | . | - | | _ | .] | |
| | | | in Bei ii Citele | 4 2 6,5 6 | 6,(92 | 113,271 | 396,717 | 4,003,750 | 0,155 | | |
| | | | GRAVE TOTAL OR CON- RAI PROVINCES AND TENTAR | 19,101,634 | 21,039 | 1 30,291 | 4"),30 | 13,165,557 | g7,573 | | |

FORM No. 8.

| | | | | Areas fina | il y settle d during | the vear. | | |
|--|----------------------|---------------------------------------|--|---------------------------|-----------------------------|------------------------------|---------------------------------------|---|
| Name of Forest Division, | Name of Civil Divisi | Aren alrends ect eettled at commence- | No and date of Government order accord- | | | Expenditure in the year on a | curred during reas finally led. | Latire cost per |
| ,,,,,,,, | | ment of the veir | order according final sauc- ing final sauc- tion to the settlement. | Name of forest settled | Area in square miles, | In forest accounts | In other accounts. | Lutire cost per square mile of area finally settled during the year |
| Zapaphonanag ayunamanana ara she su I | 3 | J | 4 | 5 | 6 | 7 | 8 | , |
| NORTHERN CIRCLE | | Sq. ms | | | | Rs | Rs. | Rq, |
| Mandla | Mandlı | 2,570 | 144 | *** | | | | |
| (as it stood prior to fist April 1913) | | | | | | | | |
| | | | | | | | | |
| | | • | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Jubbulpore | Jubbulpore | 345 | | • | 171 | | | ••• |
| Narsinghpur | Mandla | 174 | ••• | • • | 400 | | ••• | |
| (as they stood pilor to 1st April 1913. | Narsinghpur) | 249 | *** | -** | *** | ••• | | |
| - | Damoh | 792 | Notification No. 649, dated the 20th August 1912. | Salaiya | '13 | *** | | ••• |
| 110 | | | *** | *** | *** | | т, | |
| Saugor | . Saugor | 753 | Notification No. 423, dated the 26th June 1912. | Rahatgarh | 13 | | | ••• |
| | | | Notification No. 454, dated the 4th july 1912. | Ranipura | roos | | | |
| • | | | Notification No 416, dated the 21st June 1912. | Bilaspur | 010 | | | |
| | | | Notification No 425, dated the 26th June 1912. | | '015 | | *** | ** |
| | | | Notification No. 118, dated the 31st January | Hardua | '11 | | *** | Paj |

| A commencement of the grant Titles as brief items is sent grant Consider research Consider researc | | | | Areas undergoing acti | llume | ent. | | | |
|--|---------------|-------|-------------------------|-----------------------|-------------|--------------------------|---------------------------------------|---|--|
| Harritola | | | ent of the | Taken in han year | d dun | ing the | Expenditu during the undergoing | re incurred year on areas y settlement. | Remarks. |
| Harrstoln - 22 Kaachanpun '04 | Name of liact | | Area in squ ne nales | Name of tract | | Arca in square miles. | | | |
| Harratola | IO | | 11 | T.S. | 13 | | T4 | 15 | 16 |
| Chatra 20 Dyrrr-Mahgaon 43 | | | | | | | Rs . | Rs | |
| Smartix 10 10 10 10 10 10 10 1 | Harratola | ٠ | .83 | Kanchanpui | | '04 | | *** | |
| Dudhari '003 Dalkra-Satai '15 | Chatra | ••• | '20 | Dyrri-Mahgaon | ۲۰, | · 4 3 | | | |
| Anjiwar oc6 Rakaria 80 September 1912. Anjiwar oc6 Rakaria 80 | Simaria | • • • | 80° | Patha-Deaogaon | ,,, | .30 | *** | • | |
| Sarangpur 08 Indra 45 | Dudhari | ••• | '003 | Dalka-Sarai | | .12 | •• | | Notification No. 718, dated the 12th September 1912. |
| Mohgaon alias Padmi 77 | Anjhwar | ••• | 1006 | Rakaria | " | ·8o | | *** | |
| Hinota | Sarangpur | | o8 | Indra | | .45 | H | • • | |
| Hinota '43 | Ganwahi | ••• | '12 | Mohgaon alsas Padmi | | 77 | *** | ••• | IJ |
| Salaiya | Kudi | *** | '49 | *** | | 444 | | *** | |
| Seoni | Hinota | ••• | •43 | | | ••• | ** | | |
| Batondha 38 < | Salaiya | ••• | '04 | *** | | 411 | | ••• | |
| Mehandwani "25 | Seoni | *** | *35 | 141 | | | • | ••• | |
| Barkhera | Betondha | *** | .38 | *** | | *** | *** | ••• | |
| Aherwara '09 | Mehandwani | •• | '25 | 111 | | | ٠ | | |
| Samapur '26 | Barkhera | **1 | *03 | ** | | | *** | | |
| Salaiya | Aherwara | *** | •09 | *10 | | 414 | *** | | |
| Salaiya '13 Notification No. 648, dated the 20th August 1912. Rahatgath '12 Menadhana '02 Do. No. 879, dated the 24th October 1912. Rampura '005 Mohandra Do. No. 882, do. Bilaspur '010 Nankpur Do. No. 917, dated the 2nd November 1912. Parsia '015 Lohra '04 Do. No. 1000, dated the 2nd November 1912. Hardya '11 Rinnai '24 <td>Samnapur</td> <td></td> <td>'26</td> <td>***</td> <td></td> <td>••</td> <td>41+</td> <td></td> <td></td> | Samnapur | | '26 | *** | | •• | 41+ | | |
| Pipia '03 Sajpani Notification No. 648, dated the 20th August 1912. Rahatgath '12 Menadhana '02 Do. No. 879, dated the 24th October 1912. Rampura '005 Mohandra '03 Do. No. 882, de. Bilaspur '010 Nankpur Do. No. 917, dated the 2nd November 1912. Parsia '04 Do. No. 1000, dated the 26th November 1912. Handwa '11 Binnaj | | | A14 | *** | | 141 | *** | ••• | |
| Rahatgarh 12 Menadhana 12 Menadhana 12 Menadhana 13 Menadhana 14 Menadhana 15 Menadhana 16 Menadhana 17 Menadhana 18 Menadhana 18 Menadhana 19 Menadhana 19 Menadhana 10 Me | Salaiya | •• | .13 | 199 | | 445 | *** | | , |
| Rampura | Pipıa | | 603 | Sajpani | ••• | ·4 2 | 214 | *** | Notification No. 648, dated the 20th August 1912. |
| Bilaspur '010 Nankpui '09 Do. No. 917, dated the 2nd November 1912. Parsia '015 Lohra '04 Do. No. 1000, dated the 26th November 1912. Hardys 'II Binnai '24 Do. No. 1, dated the 2nd | Rahatgath | | 12 | Menadhana | 31 1 | ' 02 | u | *** | Do. No. 879, dated the 24th October 1912. |
| Parsia O15 Lohra O4 Do. No. 1000, dated the 26th November 1912. Hardys O15 Lohra O4 Do. No. 1 dated the 28th November 1912. | Rampura | *** | -005 | Mohandra | | .03 | 191 | •", | Do. No. 882, de. |
| November 1912. Flandra Do. No. t, dated the 2nd | Bilaspur | ••• | .010 | Nankpur | *** | .00 | *** | | Do. No. 917, dated the 2nd November 1912. |
| Hardva 'II Binnai '34 Tho. No. 1, dated the 2nd january 1913. | Parsia | *** | '015 | Lohra | ,,, | '04 | 138 | | Do. No. 1000, dated the 26th November 1912. |
| | Hardva | ••• | ıı, | Binnai | | '34 | 11.0 | *** | Do. No. τ, dated the and January 1913. |

| | | | | Areas finali | y settleů di | aring the | year. | | |
|--|--|----------------------------------|---|----------------------------|-----------------------|--------------|---|-----------------------------------|---|
| | | Area already settled at | No and date | | | 1 | Expenditure inc the year on ar settle | urred during eas finally d. | Entire cost po |
| Name of Forest Division. | Name of Civil D street or Territory | commence- ment of the year | of Government order accord- ing final same- tion to the settlement. | Name of forest settled. | Area in square miles. | | In forest | In other | ares finally settled during the year. |
| 1 | | | 4 | 5 | _ <u></u> _ | 6 | 7 | i | , |
| | | Sq ms | | | | Ì | Rs | Rs. | R |
| NORTHERN CIRCLE— (Contd.) Saugor—(Concld.) | | | Notificaltion No 427, dated the 26th June 1912. | n Garh Simaila e | | ·004 | A+\$ | *** | |
| | | | Notification No. 528, dated the 20th July 1912. | Shikarpur | | 1011 | *** | | |
| | | | Notificatio No 841, dated the 16th October 1912. | n Jaisinghnagar | ••• | -06 | *** | | ,,, |
| | | • | Note fication No. 452, dated the | n Netua he | 410 | 601 | *** | 414 | |
| | | | Notificatio No. 561, dated t 2nd August 191 | hei | • | •ao f | | | " |
| | | | Notification No. 932, dated and Nove mb | Marpani | | '02 | | | • |
| | | | Noteficeta No 950, dated 14th Novem | rne, | | '014 | | 0.00 | |
| | | | 1 | on Marawan Paik the | 411 | *000 | | *** | |
| • | | | Notificatu No. 949, dated 14th Novem | o n Baroida Kalan | | *00 | 4 | | |
| | | | | o n Simaria Khurd | | .0 | 2 | 941 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Hikaipur | | | | Areas undergoing settle | men | it. | | | |
|--|----------------|--------------|-----------------------|---------------------------|--------------|--------------------------|---|---|---|
| Tanda | | | t of the | Taken in hand di year. | urm | ng the | Expenditu during the y undergoing | ere incurren car on areas settlement, | Remarks, |
| Rq Rs. | hame of tract, | | Area in square miles. | Name of tract. | | Arez in squarc miles, | | | |
| Garh Simaria | 10 | | 11 | 12 | - - | 13 | 14 | 15 | 16 |
| Hikupar | | | 1 | | | | Rs | Rs. | |
| Pebuary 1913- Pebuary 1913- Do. No 444, dated the 11 Netna | Garh Simaria | ••• | *004 | Barethi . | | 15 | | *** | Notification No. 110, dated the 29th January 1913. |
| Netna '001 Do June 1913. Tanda '006 Khotala Do. No. 530, dated the plune 1913. Marpani '02 Do. No. 532, do. Khera '014 Piprai Do. No. 533, do. Marawan Paik '066 Bamhori Do. No. 534, dated the plune 1913. Barodia Kalan '004 | Hikaipur | | 110, | Malthon . | | '72 | • | 1.1 | Do No. 220, dated the 26th February 1913. |
| Tanda '006 Khotala '008 Do. No. 530, dated the results of the second sec | Jaisinghnagar | *** | ¹ 0б | Mohandra . | ** | ·005 | ••• | | |
| Marpani '02 Nipania '02 Do. No. 532, do. Kheta '014 Piprai '002 Do. No. 533, do Marawan Paik '006 Bamhori '01 Do. No. 534, dated the signe 1913. Barodia Kalan '004 Sukalipur '01 Do. No. 581, dated the signe 1913. Simatia Khurd '02 Sipur '03 Do. No. 582, do. Baghonia '06 Do. No. 583, do. Majhera '04 Do. No. 584, do. Do. No. 584, do. | Netna | | ,001 | Mirwasa . | | 10' | ••• | ••• | |
| Khera '014 Piprai '002 Do. No. 533, do Marawan Paik '006 Bamhori Do. No. 534, dated the signe 1913. Barodia Kalan '004 Sukalipur Do. No. 581, dated the signe 1913. Simaria Khurd '02 Do. No. 582, do Do. No. 583, do <td>Tanda</td> <td></td> <td>1006</td> <td>Khotala .</td> <td></td> <td>800'</td> <td>9.4</td> <td>••</td> <td></td> | Tanda | | 1006 | Khotala . | | 800' | 9.4 | •• | |
| Marawan Paik '006 Bamhori '01 Do. No. 534, dated the signe 1913. Barodia Kalan '004 Sukalipur '01 Do. No. 581, dated the signe 1913. Simatia Khurd '02 Sipur 03 Do. No. 582, do Do. No. 583, do Do. No. 583, do Do. No. 583, do Do. No. 584, do Do. No. 584, do Do. No. 584, do Do. No. 585, do | Marpani | P1 1 | '02 | Nipania . | - | .03 | | m | Do. No. 532, do. |
| Marawan Paik '006 Bamhori Do. June 1913. No. 534, dated the signal pure 1913. Barodia Kalan '004 Sipur Do. No. 581, dated the signal pure 1913. Simalia Khurd '02 Do. No. 582, do. | Khera | ••• | '014 | Piprai . | | '002 | ,,, | | Do. No . 533, do |
| Simaria Khurd o2 Sipur o3 Do. No. 582, do. Baghonia o6 Do. No. 583, do. Majhera o4 Do. No. 584, do. Chanari o4 Do. No. 585, do. | Marawan Paik | | ·006 | Bamhori | *** | ·01 | | ••• | June 1913. |
| Simalia Khurd 02 Sipur 03 Do. No. 582, do. Baghonia 06 Do. No. 583, do. Majhera 04 Do. No. 584, do. Chanari 04 Do. No. 585, do. | Barodia Kalan | 100 | '004 | Sukalipur | 16 | .01 | *** | | Do. No. 581, dated the 24th June 1913. |
| Baghonia 06 Do. No. 583, do. Majhera 04 Do, No. 584, do, Chanari 04 Do, No. 585, do, | Simaria Khurd | 9 7 - | .03 | Sipur | | 03 | *** | 254 | Do. No. 582, do. |
| Chanari 04 Do, No. 585, do, | | | *** | Baghonia | 101 | ·o6 | | | Do. No. 583, do. |
| Thanks to the second to the se | \1 ** | | *** | Majhera | 100 4 | ' 04 | 100 | 41 | Do, No. 584, do. |
| Dhans I was I Do No 196 do | 299 | | *** | Chanari | | '04 | 421 | 640 | Do. No. 585, do. |
| | 410 | • | *** | Dhaura | | 'ø1 | *** | | Do. No. 586, do. |
| Chak Mundri '007 Do. No. 587, do. | bes | | 104 | Chak Mundri | pto | *007 | | *** | Do. No. 587, do. |
| Negawan 103 Do. No. 588, do. | *** | | best | Negawan | ••• | 103 | | *** | |
| Kalwa '16 Do. No. 589, do. | per | | | Kalwa | | | | ,,,, | |
| Nimni 12 Do. No. 590, do. | 414 | | | Nimni | 14, | '12 | | | 1 |
| Chak Chordhawai '09 Bo. No. 591, do. | •• | | 441 | Chak Chordhawai | | '00' | | | |
| Mandní '02 Do. No. 592, do. | 201 | | | Mandni | | | | fte | |

| | | | | Areas nnaily | settl e d during | g the vear. | | |
|-----------------------------|-------------------------------|--|---|---------------------------------|-------------------------|---------------------------------------|--|---|
| Name of Forest D vision | Name of Civil District | Area already settled at com- mencement of the | Number and date of Government order | Name of forest settled | Area in | Lapenditure in the year on sett | ncurre i during areas finally iled | Entire cost per squarc m le of area |
| | | year | recording I hal sanct on to the settlement | rame of forest settled | s juarc miles | In forcet accounts | In other recounts | finally settled during the year, |
| 1 | 1 | 3 | 4 | \$ | 6 | 7 | 8 | Ŋ |
| NORTHERN CIRCLE- (Coucld | | Sq ms | | | | Rs. | Rs. | R5 |
| Hoshangabad . | Hoshungabad | 939 | " | | | *** | ** | 344 |
| Scon, . | Seoni . | 813 | | | ••• | | • • | |
| Chhindi ara | Chhindwara | 719 | Notification No 306, dated the 11th June 1912 | Burraghuti | 001 | 100 | | |
| | Total | 7 352 | | *** | 0 546 | | | |
| SOUTHERN CIF | . | | | | | | | |
| Balaghat | Balaghat | 974 | N'otification No 200, dated the 18th March 1913 | Balaghat Nazul | 1*93 | ine | | 648 |
| | | | Notification No 84 dated the 21st January 1913 | d i | 0 09 | *** | bet | 400 |
| | | | Notification No 17, dated the 4th January 1913 | Sonawani | 0'05 | . | 4 | , |
| | | | | | 2 07 | | | |
| Bhandara . | , Bhandara | 533 | Notification N) 398 dated the 11th June 1912 | Bandarewa . | 0 68 | •• | b 56 | |
| | | | | | o 68 | | | |
| Bilaspur, | Bilaspur and Raipur (part) | 665 | Notification No 437 dited the 6th May 1913 | Sheotarai Kurpiha Darwaza | } 003 | 944 | 404 | ,, |
| | | | | | 0.03 | | | |
| North Chanda | Chanda | 1,430 | | 440 | *** | 894 | hee | , |
| 1 | | | | | | 4 | | |

| | į | Arcas undergoing settlement | | | | |
|--|-------------------------|---------------------------------|-------------------------|---|--|--|
| At commenceme veni | nt of the | Taken in hand during | the year | Expenditure i the year on an settle | incurred during eas undergoing iment | Remarks, |
| N _a me of trict | Arca in aquate miles | Nume of tract | Arca in Aquarc miles | In forest accounts | In other accounts | |
| 10 | 11 | 19 | 3 | 11 | 15 | r.6 |
| | | | | Rs | Rs | |
| Lotia | 24 | | | | | 1 |
| | | Chhatarpur ind Kolopi- paria | 28 | • | | Notification No 109, dated the 29th |
| Barraqhatı | 10, | Pardhunghogri Gujurghat | 20 08 | • | • | Do No 150, dated the 6th February 1913 |
| September of the second statement of the second statem | 3 845 | | 6 142 | | | ' - |
| Balaghar Nazul | 1 93 | Maldhaı' | o 64 | | 530 | Notification No. 219, dated the 26th, February 1913, under Section 4 of the Indian Forest Act. |
| Korja | 0,00 | Sondhar | 2 34 | | *** | Notification No. 528, dated the 10th June 1913 under Section 4 of the Indian Forest Act |
| Sonawani | 0 05 | | 4 45 | 4=4 | 41 1 | |
| 944 | 2 07 | Bandalew! | 2 98 0 68 | 111 | | Notification No. 659, dated the 15th luly 1911, under Section 4 of the Indian Forest Act. |
| | | | o 68 | | | Indian Forest Act. |
| Sheotaru, Karpu Darwaza, | 003 | Rampur,Bandha | 0,01 | 640 | • | Nonfication No. 491, dated the 28th May 1913, under Section 4 of the Indian Forest Act |
| | 003 | | 001 | | | |
| Khutunda 32 acres | 0 05 | | ** | | 260 | |
| | 0 05 | } | | | | |

)

| | | | 1 | | Areas finally | settied durin | g the veal. | | |
|-----------------------------------|---|---------|---|---|---------------------------------------|------------------------------|---|---------------------------------------|--|
| Name of Forest Division | Name of Civil Dis | tint | Art t already settled at com- mencement of the | Number and date of Government order according final | Name of forest setticel. | Area in | Expenditure in the year on suttle | curred during areas finally ed. | Entire co- per squar mile of ari inally |
| | | | year | sanction to the | | miles | In forest accounts, | In other accounts | settled during th year, |
| 1 | 3 | | 3 | + | Ę. | G | 7 | 8 | 9 |
| SOUTHERN CIR CLE.—(Concid.) | | - | Sq ms. | | | | Rs. | Rs. | R«, |
| South Chanda | Chanda | ,,, | 1,304 | Notification No 55, dated the 15th January 1913 | Sidapui Gularghata Pipri Bamhai | 0.46 | | | |
| | | | | | Jakaipalı Wakrı Pidigundam Rith | 0 37 0 36 0 27 0 24 | 414 414 | :: | *** |
| | | | • | | Machligutta Nagalwahi Nakwaia (part) | 0.59 | | 305 800 | *** |
| | | | | | Gongarpar Rith Khargaon Rith | 0 43 0 51 0 34 0 28 | ** | *** | *** |
| | | | | Notification No. 465, dated the 19th May 1913. | Pataguram Raiguram Pendlaya | 0 65 0 48 0 46 | | | |
| Nagpu Wardha . | Nagpur Watdha | •• | 532 184 | *** | ang Pag | 8 35 | | *** | |
| Raipur . | Raiper | **; | 1,206 | No. 723, dated the 3rd September | Risgaon and Karhai | 2'51 | | *** | |
| | Drug | | 174 | 1912. | 6 4 q | 251 | | _ | |
| Total So | uthern Circle | *** | 7,002 | | *** | 13 64 | | | - |
| BERAR CIRCLE | | | | | | | | | |
| | Amraoti | ••• | 1,167 | ••• | 11. | | | | • |
| | Do. | *** | 258 | <i></i> | ٠, | | | | 101 |
| Buldana . | . Buldana | *** | 445 | Notification No. 396, dated the 19th April 1913. | A Class | · 0,11 | | *** | |
| Yeotmal . | Yeotmal | ••• | 1,217 | Notifications Nos. 372 and 373 dated the 9th April 2913. | A Class | o 13 | .,, | *** | |
| Akola | a, Akola | • | 342 | Notifications Nos. 367 to 370 dated the 9th April 1913. | . C Class | 0°06 0°02 | *** | 144 1482 |) in |
| Nimar | Nimar | , | 1,949 | *** | ipe | | | | |
| Hetul | Betul | ••• | 1,308 | ļ | \$ t== | *** | | *** | ** |
| To E daad Total e Tota each | dal Berar Circle for Central 1 face | Rov | | | | . 0.34 | ~ [| | |

| | | | Areas undergoing | settlement. | | | | |
|--------|--|--------------------------|-----------------------------------|---------------|-------------------------|--|-----------------------|--|
| | At commencemen year | t of the | Taken in l | iand during t | he year. | Expenditure in the year on are settlen | as undergoing | Remarks |
| | Name of tract. | Aica in square miles. | Name of tract | | Area in squire miles | In forest account. | In other accounts. | |
| | 10 | ıı. | | | 13 | 14 | 15 | 16 |
| - | | | | | | Rs. | Rs. | |
| S | dapur ularghata | a 50 o:46 | *** | | | · | • | |
| P | pri | 0 40 | | | | *** | *** | |
| Ţŧ | amhni kaipali | 0'43 0 37 | , *** | | *** | • | ••• | |
| Ŵ | akri digundam Rith | 036 | *** | | : | 498 | 414 | |
| K | hetni | 0°27 0°24 | : | | | ••• | | |
| | lachli Iochlimutt | 0.20 | | | *** | *** | *** | |
| N | lagalwahi | 1'49 | *** | i | " | *** | * | |
| P P | akwara (part) art Yelor | 80°0 | *** | | *** | | 101 | |
| Ν | Iodampalli Rith | 0'43 |] ; | 1 | [| | ••• | |
| K | ongarpar Rith hargaon Rith | 051 | , | | | | | |
| F | langewahi | 0 28 | , | | 144 | • • • | *** | |
| | *** * • fad | | Pataguram Raigoran Pendlaya | *** | 0°65 0 48 0 46 | ••• | | Notification No. 668, dated the 23rd August 1912, under Section 4 of the Indian Forest Act. |
| | Kotwalbardi | 6.76 o'or | ┫₌ . | | 0 01 | ••• | 911 | Notification No. 564, dated the 6th August 1912, under Section 4 of the Indian Forest Act. |
| | | o.dz | 1 | - | 001 | | | |
| | Risgaon and Karha | | | - | 0'22 | ١, | | Notification No. 531, dated the 10th June 1913, under Section 4 of the Indian Forest Act. |
| | | | | | | | | Marian Colonia and |
| | | 2.21 | 1 | | 0 '22 | 1 | Ì | |
| | 641 | 11'4 | - | | 5'49 | | | |
| | | | | | 421 | | | |
| ſ | *** | | | | ••• | | | |
| | 1.01 | | | | *** | | | |
| | | | 1 | | 1 | | | |
| | A Class | 0'1 | 3 A Class | *** | 0.02 | | | Notifications Nos. 198 and 417, date the 20th February and 24th Apr |
| | | | C Class | ••• | | | | 1913, respectively, under Section of the Indian Forest Act. |
| | A Class C Class | 07 | B Class | *41 | . 0.33 | 3 | *** | Notifications Nos. 988 to 994, date the 25th November 1912, undo Section 4 of the Indian Forest Act. |
| | | | C Class | • | 3.0% | | *** | |
| | 200 | | Ghogal Block | | i '7 | 2 | | Notification No 461, dated the 10 July 1912, under Section 4 of t Indian Forest Act. |
| | The section of the se | | 22 | <u> </u> | 7.4 | 9 *** | | |
| | | | 32 | | 19:12 | | | ,, |
| | *** | 15'5 | 95 | • | 19'12 | · · · | "" | 1 |

| | | | e. e.a. imeen a | No. of the Part of | Dest. I Statistica del des | | LEAD & S. P. P. C. | - | n productive description | |
|-----------------------------------|--|-------------------------|---------------------------------|--|---|---|--|---------------------------|--------------------------|--|
| | Len_th of | Congth of | I en th of | Total leigth | I ength of bound tries | Length of | Total length of bound t | Expenditur cation duri | e on demar | |
| 10 n < 0 | retriceral lemmente i lemmente i lemmente | hound ric | conting tombine notrepaid | b in dires it close of the year | still to be demandate at close of the year | b undanes not requir- ing irtificial marks | ins al the elese of the serr | On new worl | On 1cp2118 | Remarks |
| Approximate Area bendingstresson. | 2 | 1 | 4 | 5 | 6 | 7 | δ. | 9 | 10 | II |
| | | | | | | | | | | |
| | Miles | Miles | Miles | 7'iles | Miles | Miles | Miles | Rs | Rs. | |
| NOKTHERN CIRCLE | | | | | | | | | | |
| Mandla * | | 2,053 | 324 | 2 377 | | 259 | 2,636 | | 2,617 | * North and South Mandla excluding Dhanwahi Range, |
| Jabbulpote-Natsin, hpur | | 890 | 741 | 1,631 | | 337 | 1,968 | | 1 404 | t Includes Dhar |
| Damoh . | | 649 | 747 | 1,396 | •• | 361 | 1,757 | , | 1,060 | wahi Range also. |
| Saugor . | 17 | ⁹ 54 | 902 | 1,773 | | 223 | 1,996 | 817 | 879 | |
| Hoshangabad | | 98 | 402 | 500 | | 45 | 545 | | 306 | |
| Seont | | 1,254 | 423 | 1,677 | | 229 | 1,966 | 1 | 1,174 | |
| Chhindwara | r 17 | 139 | 1,416 | 1,572 | | 18 | 1,590 | ., | 37 | No expenditure |
| Total Northern Circle | 34 | 5,937 | 4,955 | 10,926 | *** | 1,472 | 12,398 | 818 | 7,477 | incurred |
| SOUTHERN CIRCLE | | | | | | | | | | |
| Balaghat . | 1 | 37 3 | 893 | 1,267 | *** | 119 | 1,386 | 92 | 1,141 | |
| Bhandara | 4 | 399 | 857 | 1,260 | | 135 | 1,395 | 37 | 294 | |
| Bilaspur | | 189 | 236 | 425 | ••• | 148 | 573 | | 125 | |
| North-Chanda . | | 1,105 | 966 | 2,071 | *14 | 230 | 2,301 | *** | 2,739 | |
| South-Chanda | | 762 | 10 | 772 | *** | 95 | 867 | *** | 1,340 | Includes Rs. 11 |
| Nagpur-Wardha | | 472 | 702 | 1,174 | *** | 107 | 1,281 | , | 1,644 | spent on deman- cating plots to be surveyed, |
| Raipur | | 884 | 330 | 1,214 | 784 | 126 | 1,340 | | 971 | |
| Total Southern Circle | 5 | 4,184 | 3,994 | 8,183 | ** | 960 | 9,143 | 59 | 8,254 | |
| BERAR CIRCLE | | | | | | | | | | |
| A Class Forest . | 4 | 69 | 192 | 265 | 165 | 179 | бод | 56 | 406 | |
| Melghat B do. do | | ļ | 12 | 12 | 198 | | 12 | a | *** | |
| C do. do | . *** | *** | *** | *** | , | | 141 | | ats | |
| Total | 4 | 69 | 204 | 277 | 165 | 179 | 621 | 56 | 406 | |
| (A Class Forest ,. | | 150 | 176 | 326 | Fê V | 12 | 338 | | 555 | |
| Amraott , B do. do. | 410 | őo. | 4 | 64 | Art | 1 | 65 | 394 | 255 | |
| C do. do | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 100 | 3,031 | 3,131 | | 17 | 3,148 | **, | 267 | |
| Торац " | e44 | 310 | 3,211 | 3,521 | kipp | 30 | 3,551 | ,,, | 1,077 | |
| | - | - jeropjesto | * | - | | 1 | - | 4 | | |

| | | Length of bound 1198 | I ength of | I ength of | Total length of | I ength of boundaries | Length of | lotal length of | Expenditure tion durin | on demarca- the year. | |
|-------------------|--------------------|---|------------|---------------------------------|--------------------|--|---|--|---------------------------|--------------------------|------------|
| n |),1 10n. | artificially demark ted during the year | Casting | brundaries not re- paned, | muncially | still to be demarcate of at close of the year | hour dances not no- quaring artificial marks. | boundaries at the clo (of the jear | On new york | On repairs | Remarks |
| | 3 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | - | Mıles. | Mıles | Miles | Miles | Miles | Miles | Miles. | Rs | Ka - | |
| [| (A Cluss I orests | | 34 | 4 µ | 475 | | 15 | 490 | • | 299 | |
| 1 | B do do, | *** | | 36 | ვნ | | ••• | 36 | ٠ | 6 | |
| (| (C do do | 100 | 76 | 77 | 577 | | ·· | 653 | | 387 | |
| | Total | *** | 110 | 1,054 | 1,164 | ··· , | 15 | 1,179 | .,, | 692 | |
| (| (A Class Forests. | | 437 | 413 | 850 | | 48 | 8 98 | *** | бо4 | |
| Yeetmal | B do. do | *** | 37 | 91 | 128 | | *** | 128 | "" | 28 | |
| Teornar 144 | C do do | 414 | *** | 4,329 | 4,329 | | | 4,329 | ., | 39 | |
| 1 | D do. do | *** | | 115 | 115 | ••• | | 115 | *11 | | |
| | Total | *** | 474 | 4,948 | 5,499 | ••• | 48 | 5,470 | 4 44 | 671 | |
| | A Class Forests. | 100 | 199 | бао | 729 | 121 | 11 | 740 | ,,, | 542 | |
| Akola | B do, do | *** | 26 | 123 | 149 | | | I 19 | 111 | 147 | |
| | (C do. do | | | | ., | 120 | | ••• | A 975 | 66 | |
| | Total | , got | 155 | 723 | 878 | , , | 21 | 889 | | 755 | |
| Namaa | . A Class Forests. | | 389 | 669 | 1,058 | 5 | 301 | 1,364 | .,, | 1,778 | |
| | Total . | , ,,, | 389 | 669 | 1 058 | 5 | 301 | 1,364 | | 1,778 | |
| Betul | A Class Forests | 1 | 540 | 538 | 1 | 1 | 33 | 8 1,416 8 34 | 1 | 1,542 | |
| • | Total | - | 544 | | - | - | 34 | | - | 1,542 | |
| Grand To | otal Berar Circle | | 4 2,04 | | | | - | | | | Rs. 6,977. |
| Grand To Ber a | OTAL FOR C P. AI | 4 | | - | _ | | | | 5 93 | 3 22,652 | ** |

A. B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as compartments and coupes.

| | | Special su Ind | rsevs—Maps in Departmer | on 2" scale it or Forest 5 | orover Survey B | hy Burver | of | Ordinary included in Topog aphical Programme of the Survey of India or in District Surveys. | | | | | | | |
|--------------------------|---------------------------|-------------------|----------------------------|-------------------------------|--------------------|-----------|--|---|------------------|----------------|-----------|----------------|----------------|--|--|
| Pi- | | <u></u> | interior deta | | | lary Surv | _ | With | interior details | · | Bou | ndary surveys. | | | |
| DIV | gian, | Previous. | Of year. | Total Cost. | Pre- | Of year | Total cost | Previous. | Of year. | Total Cost. | Previous. | Of year. | Total Cost. | | |
| | | | | | | : | | | | | | | | | |
| | 1 | 2 | 3 | 4 | \$ | 6 | , | 8 | 9 | 10 | 11 | 12 | 13 | | |
| NORTHE | RN CIRCLE. | Sq. Ms. | Sq. Ma. | Rg. | Sq. Ms. | Sq. M . | Rs. | Sq. Ms. | Sq. Ma. | Rs. | Sq Ms. | Sq. Ms. | R9. | | |
| landla* | ng # | †1,709 | **1 | 94,301 | • | | | | | | 53 | | | | |
| uhbulpore-Nam | inghpur\$ | 783 | | 89,840 | , | | .,, | | | ••• | | | *** | | |
| Jamoh | ,, | . 792 | | 2,13,429 | | | 411 | # | ** | | - | | ~ | | |
| augor | | 753 | | 79,030 | | *** | | | | | , | . | 4• | | |
| Ioshangabad | | 1,211 | ٠. | 18,873 | | *** |] | | 745 | | | | ••• | | |
| icont | *** | 827 | IM. | 60,146 | | | | , | | *** | | | •• | | |
| hhindwara | . , | . 712 | 144 | 49,185 | | , | fee. | | | *115 | ,,, | | *** | | |
| lotal | Northern Circle | 6,787 | 41 | 6,03,804 | | 110 | | | | .,, | 53 | | | | |
| SOUTHE | rn circle. | | | | | ! | | | | | | | | | |
| 3alaghat | *** | 954 | | 45,963 | | | | | | ••• | *** | | | | |
| Shandara | | 533 | | 35,822 | | | | | | *** | ••• | , | | | |
| Bilaspur | *** | 614 | ,,,, | 42,549 | | | | | | | *** | | | | |
| North Chanda | n) | -h | | | | | | | | | | | | | |
| South Chanda | m | 5,065 | ant | 86,999 | | " | ••• | ** | | , | | | - | | |
| Nagpur-Wardh | | . 705 | | 60,467 | | | | | | | 141 | | | | |
| Raipur | *** | 1,386 | m | 1,03,818 | | *** | | | *** | | *** | | . | | |
| Tota | al Southern Circle | . 7,168 | | 3,76,618 | | | | | 411 | | | 417 | | | |
| RTAR A | r cirole. | | | | | | - | | | | | | | | |
| Meighat | | 1,167 | a, | | | | | 1 | | | | ., | | | |
| Amraoti | 100 | | | 100 | | | | | | | 25 | | | | |
| Bukkana | 100 | 136 | | 444 | | | | | 154 | | 15 | ļ | , | | |
| Yeoimal | cis | , | | 100 | ,41 | | | 1 | | 6,76 | | | 2 | | |
| Aldin | *** | | | *10 | | | | 10 | 97 | 198 | ģi | 9 380 | | | |
| Minar | 14 | 1,657 | | \$,50 | | | 414 | 44 | ••• | | *** | | | | |
| Bétu) |)- p4n | 4,189 | | 10, 150 | | ,,,, | *** | | | .,, | | 40.0 | | | |
| | Total Berar Circle | 4,135 | | 15 ₂ 46 | | | | 74 | 37'3 | 6,70 | 5,0 | 985 | | | |
| Grand Tolds Vinces an | nor Central P d Berge, | RO- 18,19 | | 10,05,88 | 5 | , 194 | - | 74 | 375 | G,70 | ja 3,1; | 37 981 | | | |

| during | the year | 1912-13. | | | | | | Ī | | | Cost. | | |
|---------|----------|----------------|---------------------|-------------|----------------|--------------|---|-----------------------------|--------------------------------------|--------------------------|------------|--|--|
| | | Chain an | d compas | or other su | rieys by local | officers. | | | | | | | |
| | | | r details. | | | ındary surve | 75. | Areas remaining to be | Total forest area at end of | | | | |
| 4" or | over | Unde | er 4 ⁰ . | Total | Previous, | 06- | Total Cost, | talen under survey. | the year as per Form No. 7. | Previous, | Of year, | Entire cost of all surveys to end of the year. | Remarks, |
| Pre- | Of year, | Pre- vious. | Of year | Cast, | Previous. | Of year. | Cost, | | | | | | |
| 24 | ış | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 20 | 24 | 25 | 25 | 27 |
| Sq. Ms. | Sq. Ms. | Sq. Mø. | Sq. Ms. | Rs. | Sq. Ms. | Sq. Me, | Rs. | Sq. Ms. | Sq. Ms. | Rs. | Rs. | Rs. | |
| 1 | | •• | | | 4 | | *** | 110 | 2,57 0 | 94,301 | 44 | 94,301 | *North and South Mandla excluding Dhanwah: Range. |
| | *** | 40 | | *** | . | cit · | *** | , | 768 | 89,840 | •• | B),840 | Range. †The Divisional Forest Officer reports that the area given in previous year's report was in- |
| ••• | " | 216 | | 71. | , | *** | bbs | ota | 792 | 2,12,429 | *** | | fincludes Dhanwahi Range |
| ". | "" | | *** | ••• | 444 | | • | 411 | 753 939 | <i>1</i> 9,030 18,873 | *** | 79,030 | also. |
| | .,, | | | | | *** | e44 84 | 111 | 813 | 60,146 | ** | 18,873 60,146 | |
| 411 | | | | *** | | ** | 911 | 114 | 717 | 49,185 | | 49,185 | |
| | | | | | | | | | h 449 | | | | |
| | | | | | 4 | | | | 7,552 | 6,03,804 | | 6 93,804 | |
| | | | | | | | | | | Ī | | | |
| *** | | • | " | • | | ** | *** | æ | 976 | 45,963 | • | 45,963 | i. |
| *** | | ••• | *** | 145 | 6 | *** | 410 | +** | 533 665 | 36,522 | ** | 35,B23 | |
| | ,10 | | 137 | *** | • | 741 | *** | (14 | f 1,402 | 48,549 | | 43,549 | |
| *** | *** | 449 | 700 | 496 | 4 | *** | *** | 194 | 1,293 | 86,990 | • | 86,090 | |
| ** | 417 | <i>p</i> m | | • | | 493 | 45 | | 916 | 69,46 <i>7</i> | *** | 60,467 | , |
| - | | | | 11) | 414 | | | 4.0 | 1,380 | 3,03,818 | .,, | 1,04,818 | |
| *** | 146 | ,, | .,, | 110 | 10 | *** | • | | 6,966 | 3,76,618 | 100 | 3,74,618 | |
| | | | | | | | | | | | | | |
| 36 | 44 | | *14 | 1,124 | | *** | | Nd. | 3,367 | 2,13,125 | 499 | 2,13,827 | |
| 46 | *** | | | 540 | | | ur. | 155 | 240 | 1,971 | *41 | 3,97 E | |
| 28 | | | ** | 79 | ,,, | *** | | 176 | 499 | 421 | N,a | 492 | |
| 411 | - | | 74 | *** | n. | , | | ١ | 3,826 | 28,323 | š o | 28,373 | |
| 100 | | | - | *** | | | | 6 | | ₿ , 400 | 29 | 3,430 | |
| ket | | *** | | *** | - | | tr. | 29 | | 5,308 | | 6,309 | ,, |
| *** | *** | , | | , | *** | 414 | | *** | 1,189 | a0,156 | <u> </u> | 20,207 | |
| 110 | 44 | | ••• | 1,743 | 111 | *** | *** | 366 | 6,955 | 2,72,707 | 8ar | 2,73,428 | |
| iii | 44 | | *** | 1.143 | 14 | 794 | *** | 366 | 20,572 | 12,53,X39 | 821 | 12,53,950 | - ; |

| | Ar 14 for to BAP teens to Tee I Gov | which in a hise is nell by ernor ent | norking trube comp | r which plans ang iled. | which working | | SPL3 38 IR 1 | Intire (ost ber equare mile of | |
|---|--|---|----------------------------------|--------------------------------------|------------------|---|--------------|--------------------------------------|--|
| Davision | At comme ice ment of vear | Dum g verr | At comment mert of year | I aken in hand d ring year. | still to be | plane tre not at present required. | N1 7 | vorking- plans completed | Remarks. |
| I - | - | 3 | 4 | ţ, | 6 | 7 | В | 9 | 10 |
| | Sq ms. | Sq. ms | Sq ma | Sq ms. | Sq. ms. | Sq. ms | Sq. ms | Rs. | |
| NORTHERN CIRCLE | 324 | | | Q11† | | ‡2,127 | 2,570 | | †Rough scheme of working for Khannat forest. |
| wahi Range). abbulpere Narsinghpur (ir cluding Dhanwahi Range). | | | | | | | 768 | ,,,, | ‡ 803 square miles B. I. Class forest which is to be shortly disforested |
|)amoh | 792 | | | | | ••• | 792 | *** | <u>.</u> |
| | 753 | | | | ,,, | | 753 | | |
| Ioshangabad • | | • | | | | 199 | 939 | | |
| eoni . | 813 | 140 | | | | | 813 | *** | |
| Chhipdwara | 666 | *** | 666 | ant . | ٠., | \$ 51 | 717 | | § B. I. Class 1 yotwari areas. |
| Total | 4,100 [666] | | 666 | rrg | | 2,377 | 7,352 | | |
| SOUTHERN CIRCLE | | | | | | | | | |
| 3alaghat | 190 | | 747 | , | 22 | 81 | 976 | | 22 Square miles recently afforested. |
| Bhandara | 533 | | | | | *** | 533 | *** | |
| Bilaspur | *40 | , | 66 | | | | 665 | } | |
| North Chanda | . 1,110 | , | | | | (8) 2) | 1 | | |
| South Chands | 73 *50 | | 55 | | | (r) 761 (d) 307 | 1,295 | 3 *** | (c) Mainly B Class, includes a square miles o forest. Village and 9 square miles like to be disforested shortly. |
| Nagpur Wardha | *71 | 6 | 71 | 6 | | | 710 | 5 | (d) Sironcha Range. |
| Raipur | *1,35 | 8 . | | 1,36 | 3 | 17 | 1,98 | 0 | Forest villages (17 square mile |
| Total | 1,84 | | 2,68 | Bo 1,31 | 63 2 | 2 1,01 | 58 6,90 | 55 | - |

⁽à Norz -Areas envered in column 7 should not be entered in column 6.
Norz - Pigures 1, arked * in column 2 denoté areas in 4 hich the current working-plans are under r vision.
(b) menotes B Class forests.

| | 80 az - trn. a - 1 | - | | | <u> </u> | | | | - Tan - Magarier 2 7 | THE TA | bez 44 |
|---|---|-----|-------------------------------------|--|---|--|--|--|---|--|---|
| 4 | | | w rking | for which plans have ctioned by acrument. | wor in | or which or-plans bung plied. | Arczior | Area for | | l ntire cost | |
| | Di∀ision. | | At communes- ment of year, | Daring year | At communication of year. | Inken in hand during year | witch w rking- plans have still to be taken in hand | which wrk ng plane are not at present require! | Total foist iteras in Term No 7 | per equare mile of working plans completed | Remark- |
| | 1 | | 2 | 3 | 1 | 5 | 6 | 7 | 8 | 9 | 10 |
| | BERAR CIRCLE, | | Sq ms. | Sq ms | Sq ms. | Sq ms | ^e q ns | Sq ms | ≤d ms | Rs | |
| | Melghat | | 6 93 | ** | 474 | | ••• | •• | 1,167 | ••• | |
| * | Amraoti | | ,** | | (a 240 | *** | *** | *** | (a) 240 | 514 | (1) Desrease of 13 quare miles is due to C Class areas being disforested |
| | Buldana | | 3 | | [i] 426 | pes ⁴⁰ | •• | *** | (b) 429 | • | (b) Decrease of 17 square miles is due to C Class. |
| | Yeotmal | • • | (19) | ••• | (c) 1 172 | | ••• | (d) 54 | (e) 1,426 | *** | (c) Includes 19 square miles in column a which will be incorporated in the working-plan for the whole Division (c) Increase of a square miles is due by traisfer of certain villages from the Akola Di-trict. (d) Area of "C" Class when will shortly be listore-ted and therefore excluded from the wiking-plan. |
| * | Akola | ., | (2) | •• | (g) 318 | • | *** | F+6 | (f) 318 | 195 | (f) Decrease of 24 square miles is due partly by disfore tation of C Class forest and purly by transfer of certain villages to the Yeotmal District. (g) Includes 2 square miles in column 2 which will be it corporated whole in the working-plan for the Division. |
| | Nimar , | | 282 | | h 1,404 | ••• | ••• | •22 | (i) 1 6 3 6 | ••• | (h) Increase of 3 square m les is due to correction of areas by rc. alculation. (i) Decrease of 266 squa e miles is due to "-I forest are as being a inforested for Ryotwani Settlement. |
| | Betul | *** | 1,181 | | ••• | 464 | | (<i>j</i>) 8 | (A) 1, 89 | *** | (y No working-plan is required for 8 square miles of F-I Class forest. 18) Decrease of 119 square miles is due to disforestation of areas for Ryotwari settlement |
| | Total Berar Circle | | 2,159 [21] | fot | 4,434 | I44 | 141 | ба | 6,245 | ., | |
| | GRAND TOTAL FOR CENTR PROVINCES AND HERAR. | AL | 8,191 [4,416] | ام سال می در استان این از در استان این از در استان این از در از در از در از در از در از در از در از در از در ا | 7,3 ⁸ 0 | 1,482 | 23 | 3,497 | 20,572 | чь | |
| À | | | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | - | The second second | <u></u> | |

| • | | | | | | · 1 | |
|--|--|-------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------|
| there we | Buildings. | | Roads and | l patha. | | Other works. | Total expend |
| | Description of building | Expendi- ture incurred. | Description on road or path. | Length of road or path. | Espendi- ture incurred. | Expendi- ture incurred. | works. |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| VORTHERN CIPCIF | | | | | | | |
| | | B5. | | Miles. | Rs. | Rs. | Rs. |
| viandi. North and South excluding | Rest-houses | 20 | Cart roads | 1 | 156 | 115 | *** |
| Dhonn the Range). | Subordinates' quarters | 2,349 | Coupe and feeder roads | 7 | 109 | | |
| | Other houses | 284 | Inspection and other paths | 4 | 25 | | 1 |
| | | | Alignment | 6 | 10 | | |
| • | Total | 2,653 | | 18 | 300 | 115 | 3,00 |
| Subsulpere - Narsingh pur (including Dhan | Houses for Subordinate Establishment. | 903 | Regular cart roads | 8 | 400 | | *** |
| n spr grade, | Others * | 140 | Coupe and feeder roads | 4 | 200 | | ••• |
| | | | | | i | | |
| ı | Total | 1,043 | | 12 | боо | | 1,6 |
| | (ompleted. | } | | | | | |
| Traccut: | Subordinates' quarters . | 832 | Cart roads | . 18 | 2,909 | 475 | |
| | Others | 604 | bbp | | | | 845 |
| | In Progress. | | | | | | |
| | Subordinates' quarters | 342 | Alignment | . 39 | 260 | | - |
| | Rest-house | 813 | Coupe and feeder roads | 1 | 359 | | *** |
| | Total | 2,591 | | 70 | 3,594 | 475 | 6,8 |
| | Completed. | | | ļ | | 1 | |
| Special | Houses for Subordinat Establishment | 1,046 | Cart roads | 3 | 47 | 5 41, | |
| | | | Feeder rpade . | 8 | 16. | 4 | - |
| | Others . | 275 | Aligament . | 7 | 1. | 614 | |
| | Total . | ., 1,321 | | 18 | 65 | 4 614 | 1 2, |
| | Camatal | | | | | | |
| Hoshangabid | Completed. Range quarters | _ | Cari roads . | | (m) eA | _ } | . |
| · 中華四月四月美術 日本 14 | | 550 2,856 | 1 | 36 |] | .] " | ⁸ |
| | Houses for Subordinat | 1 | | lio | *** | 214 | 494 |
| | Ott | 865 | ••• | | *** | *114 | , ste |
| | Total . | 5,953 | | 146 | 11,75 | ž Š4 ¹ | 18, |

| • ~ | | | Road : and | paths. | | Other Works. | | Remarks. |
|-----|--|--------------|------------------------------|---------------------|---|------------------|-------------------------------------|--|
| | Baddings. | L spendi | | | I Spendi- | E pendi- tare | Total expenditure on repairs. | |
| | Description of hunding. | incurred. | Description of road or pith. | Length reparred. | incurred. | incuired. | | 16 |
| | _ 9 | 10 | | 19 | 13 | 14 | 15 | |
| | | | | | | | Ra, | |
| | | Rs . | | Miles. | Rs. | Rs. | | |
| R | eri-houses | 140 | Cast roads | 89 | 63 6 | 224 | ''' | |
| St | iboidinates' quarters | 1,123 | Coupe and feeder roads | 9 | 33 | 400 | ··· | § Includes Rs. 9 |
| 0 | ther houses | § 176 | Inspection and other paths | ភ ព | 101 | 4+4 | ••• | on account of pay of mali. |
| | | - 100 | | 126 | 770 | 224 | 2,433 | |
| | | 1,439 | | | *************************************** | | | |
| R | est-houses | ₽8 | Regular cart road | 85 | 614 | | • | |
| R | tange officers' quarters | 2C5 | Coupe and feeder 10ad | 104 | 528 | 357 | ••• | |
| | Touses for Subordinate Estab- lishment. | 673 | Path roads | 2 | 13 | | *** | |
| | | | | 191 | 1,154 | 357 | 2,477 | |
| | | 966 | | MAR | | - | | |
| _ | | 249 | Cart ronds | 18 | 642 | 527 | , | |
| | Rest-house | | Coupe and feeder roads | | 59 | , ,,, | | |
| | Range quarters Subordinates' quarters | | HI HI | 1 | | | | |
| • | 1 | | | | | | | |
| | | 855 | | 18 | 70 | 52 | 1,80 | - B |
| | | | | | | | | |
| | Rest-houses . | ., 108 | Cast roads | 114 | 90 | o6 | | |
| | Rangers' quarters | . 134 | | B 11 | | • | | |
| | Houses for Subordinate Esta lishment. | 564 | 444 | | 131 | 1: | | |
| | | 80 | 6 | 11 | 4 9 | o6 I | 87 1,89 | 9 |
| | | | | | | | | |
| | Range quarters | 25 | 3 Cart roads | | 4 2,0 | 1 | 104 | (a) include Rs 736 on second cost of Estab |
| | Rest-houses | 3r | 36 | | ••• | - " | | ment employe |
| | Houses for Subordinate Es blishment. | ta- 53 | 32 | | " | *** | • *** | LOEG MOCK! |
| | -Others | 25 | 34 | 361 | 121 | 140 | • | |
| | | 1,2 | | | 54 24 | 085 | 304 3,6 | 54 |

| | | | New work undertaken during th | 10 Year. | | | , . |
|------------------------------|--|-----------------------------|---------------------------------|-------------------------------|------------------------------|--------------|--|
| Dirls on, | Buildings | | Road, an | ad paths. | | Olher works, | Tatal armoudi |
| | Description of hudding. | Expendi ture incurred | Description of road or path | I ength of road or path | Expendi- ture incurred | Expendiature | Total expendi ture on new works, |
| 3 | 9 | J | 4 | ś | 6 | 7 | 8 |
| NORTHERN CIRCLE.—(Concld) | | | | | | | |
| | Comfleted. | Rs | | Miles. | Rs. | Rs. | Rs. |
| Šeom | Houses for Subordina Establishment | te 673 | Cart roads . | 2 | 495 | 1,434 | *** |
| | | | ,, | *** | D+2 | *** | ., |
| | Total | 673 | | 2 | 495 | 1,434 | 2,60: |
| | Completed | | | | | | |
| Chhindwara | Houses for Subordina Establishment | rie 11 | Regular cart roads | 14 | 3,334 | *** | Pres. |
| | | *** | Alignment with road traces | | ··· 6 | 258 | ** |
| | In Progress | | |] | | | |
| | Rest-house | 325 | | ••• | /h | | 411 |
| | Houses for Subordina Establishment. | ite 683 | , | *** | *** | *** | *** |
| | Total | 1,019 | | 24 | 3,340 | 258 | 4,61 |
| General | | 100 | | | 7 36 | 900 | § 90 |
| | | | | ** | | | , 50 |
| GRAND TOTAL | 145 | 15,293 | | 290 | 20,674 | 4,344 | 40,31 |
| Southern Circle. | | | | | | | |
| Direction | | *** | 947 | ••• | *** | | |
| Balaghat | 1 | *** | Regular cart roads " | 13 | 5,028 | .,, | |
| | | 733 | 1 | • • | *** | | 111 |
| | Subordinates' quaiters | 2,824 | Inspection and other paths | | 151 | ··· | #** |
| | Other buildings | 1,043 | Alignments with road traces, | 7 | 258 | 1,283 | ** |
| | Total | 4,500 | - - - | 20 | 5,285 | 1,283 | 11,10 |
| Balaghat School | Head-quarters houses | Bo z, z | Regular cart road | eşe | 163 | | *** |
| | Total | 1,198 | | its | 163 | ánh | 1,3 |

| | | Repairs executed during the | 1 veni. | | | | |
|--|-----------------------------|-----------------------------|---------------------|------------------------------|-----------------------------|-------------------------------|--|
| Buildings | | Ro ida at | nd paths. | | Other worl s. | | Remarks. |
| Description of building | Lyenti- turc incurred | Description of road or path | Tength repaired. | Expendi- ture incurred | E pendi- tur meurred. | Total expenditure on suparra, | |
| 9 | 10 | žt . | i, | 13 | 14 | 15 | 16 |
| Rest-houses | R. 360 | Cort 10ads | Miles 92 | Rs. 353 | Rs 78 | Rs 1 75 6 | |
| Houses for the Subordinate Establishment. | 905 | Coups and feeder roads | 15 | бо | •• | •1• | * Includes Rs. 84 on account of pay of a mali. |
| | 1,265 | | 107 | 413 | 78 | 1,756 | |
| Rest-houses | 32 | Catt road | 54 | 283 | | ., | |
| Range officers' quarters Houses for Subordinate Establishment | бо | | | *** | 2 34 | | |
| | | | | | | | |
| | 143 | | 54 | 281 | 234 | 660 | |
| ¢. | 24. | | | (1) | [49 | | § Represents pay and travelling allow- ance of Tank over- seer and his estab lishment. |
| | 6,739 | | 864 | 6,312 | 1,911 | 14,962 | seer and his estab hishment, |
| Head-quarters houses | | Cart roads | 77 | 4,685 | 626 | bes - | |
| Rest-houses | 376 | Bridle paths | 1 | | *** | 144 | |
| Subordinates' quarters | | Other foads | 142 | 665 | | *** | |
| Other buildings | 22 | 44. | pad. | | 333 | 489 | |
| | 1,363 | | 219 | 5,351 | 333 | f,946 | |
| Head quarters houses , | 1,038 | Cart road | A40 | 185 | 199 | * | |
| | 1,038 | - | *** | 185 | 199 | 1,397 | , |

| | | | Net was induction during | the to ir. | | | |
|-----------------------------|------------------------|---------------------------|------------------------------|-------------|--------------------------|------------------------------|---------------|
| Dura : | P 1, e | ٠ | lua ebro ¹ | paths | | Other voiks. | Total expendi |
| | Drjtifin | F enti- tir incried |)) cupt nesticadory th | I in the cr | lapran ne menried, | L pendi- tino incurred | ture on uev |
| I | 2 | 3 | † | 5 | h | , | 8 |
| SOUTH RN CIRCLE —(Corte) | | Pr. | | n e | Rs | Rs | Rr |
| Bhandu i | i d quiter, house | , | Le nateur room | , | 1,667 |) | 75.5 |
| | e -hou cs | 4~0 | | j | • | | *** |
| | Sub-11 istes' gairtee | · · | Timetor and other | | | 934 | |
| | Other buildin . | 14 | th ment with road | 141 | 13 | 3,552 | *** |
| | lotal | ; 917 | | | 1,679 | 3,552 | 9,042 |
| Bilecpur | tra luarter, force | | Partle cost soids | 13 | 4,261 | i . | *10 |
| | et houses . | 1 108 | Crupe and feeder roads | | | | *** |
| | nbor le ites quaters | 2 (37 | In tection and other paths | | • | | *** |
| | Otto buildings • | | Proment with road true, | 8 | 58 | 510 | ••• |
| | Fold . | 3 255 | | 21 | 4,319 | 510 | 8,08 |
| North Chanda | He dequarters houses | | I e alu cortioado | 4 | 2,278 | | *** |
| | Perlours | | ficipe nlfactarionds | • | бо | | |
| | subor in test hon | 1 207 | In pection and other paths | | 6ე | | , |
| | Other buildings | 31 | Ali_nments with road trices | 3 | 40 | 663 | |
| | Total | 1,328 | | 7 | 9,447 | 663 | 4,43 |
| South Chanda | Head-quarters houses | r . | Recular cart roads | 5 | 2,093 | •11 | *** |
| | Rost houses | | Coupe and feeder 101d3 | | *** | | |
| | Subordient 'quarters | 689 | Inspection and other pathe | *** | ** | | |
| | Otler buildings | 368 | Alignments with road trive | | *** | 1,836 | 411 |
| | Total | 1 057 | | 5 | 2,093 | 1,836 | 4,98 |
| Nagpur-Wardha | llead-quarters houses | * | Regul i cait roids | 7 | 2,6 61 | (1) | Pås |
| | Res -houses | 2,G 77 | Coupe and feeder to als | 1 | 79 | | |
| | Subordinates' quarters | 1,164 | Inspection and other paths | 749 | | | ,, |
| | Other buildings | 44 | Alignments with road traces, | 2 | 112 | 625 | *** |
| | Total | 3,885 | | 10 | 2,852 | б25 | 7,36 |
| Raipur . | H and quarters houses | .,, | Regular cart roads | 18 | 4,897 | | *** |
| | Rest-houses | бю | Coupe and feader road | | *** | | *** |
| | Subordinates' quarters | 2,97 9 | Inspection and other paths | 12 | 145 | ••• | , , |
| | Oth r buildings " | *14 | Alignments with road traces, | .,, | *** | 661 | ••• |
| | Total | 3,589 | | | 5,042 | 661 | 9,29 |
| | Total Southern Circle | 22,724 | | 95 | 23,881 | 9,130 | 55,73 |

| Buildings | | | | Roads and | paths. | | Other works, | Total | Romarks. |
|--------------------------|------------|------------------------------|----------------------|-----------|----------------------|-------------------------------|-------------------------------|----------------------------|--------------------------------------|
| Description of building, | | Expend:- ture mentred. | Description of roads | or paths. | I ength repaired. | Fupendi- ture incurred. | Expendi- ture incurred, | expenditure on repairs, | |
| 9 | | 10 | 11 | | 12 | r3 | 14 | 15 | 16 |
| | | | Rs. | | Miles | Rs. | Rs | Rs. | |
| Head-quarters houses | | 814 | Cait roads | | 174 | ,11 8 | 110 | | |
| Rest-houses | | 101 | Bridle paths | | | ••• | | | |
| Subordinates' quarters | ••• | 406 | Other roads | | 154 | 458 | "" | *** | |
| Other buildings | | 17 | | | ••• | ••• | 257 | *** | |
| | | 524 | | | 154 | 458 | 257 | 1,242 | |
| Head-quarters houses | ••• | •• | Cart roads | .,, | *** | 1** | 141 | *** | |
| Rest-houses | | ટેલ | Bridle paths | , | 10 | 15 | *** | +40 | |
| Subordinates' quarters | | 210 | Other roads | | 140 | 805 | | | |
| Other buildings | 180 | 67 | | : | 920 | 424 | 159 | *** | |
| | | 375 | | | 150 | 821 | 159 | 1,355 | |
| Head-quarters houses | • | ** | Cart roads | | 152 | 3,315 | ••• | *** | |
| Rest-houses | | 386 | Bridle paths | 1 | 411 | ••• | | .40 | |
| Subordinates' quarters | | 1,019 | Other roads | *** | 410 | 754 | ••• | 904 | |
| Óther buildings | | 74 | | | в. | *** | 778 | 014 | |
| | | 1,419 | | | 152 | 3,315 | 778 | 5,512 | |
| Head-quarters houses | 111 | *11 | Cart 10ads | *** | \$75 | 2,304 | ,., | *** | |
| Rest-houses | | 1,025 | Bridle paths | 454 | 40 | 97 | *** | *** | |
| Subordinates' quarters | ••• | * 1,274 | Other roads | 4** | 8 | 47 | 904 | ••• | *Includes Rs. 3: on account of po |
| Other buildings | | 569 | | | 494 | tu | 1,423 | 144 | of establishment |
| | | 2,868 | | | 623 | 2,448 | 1,423 | 6,739 | |
| Head-quarters houses | 491 | *** | Cart roads | *** | 231 | 761 | | 111 | |
| Rest-houses | **1 | 124 | Bridle paths | *** | ••• | *** | *** | *** | |
| Subordinates' quarters | 4) | 814 | Other roads | | 447 | Des | 612 | ,,, | |
| Other buildings | 694 | 10 | | | *** | *** | 675 | **11 | |
| | | 948 | | | 231 | 761 | 675 | 2,384 | |
| Head-quarters houses | *** | 119 | Cart roads | 411 | *** | *** | | ** | |
| Rest-houses | 444 | 101 | Bridle paths | ••• | ,** | 411 | 273 | ••• | |
| Subordinates' quarters | 11 | 1,057 | Other roads | 441 | 222 | 1,168 | 1,642 | *** | |
| Other buildings | • • | 714 | | | * | | | | |
| | i | 1,158 | | | 223 | 1,168 | 1,542 | 3,968 | |
| | | 9,593 |] | ; | 1,751 | 14,507 | 6,193 | 30,293 | |
| | | · | | - | | stract. | | | 1 |

| | | | | | | Abstract. | | | | |
|---|------------------------|------------|------------------|------------------------|-----------|------------------------|------------------------|--------|-----------------------|-------|
| | Ro | ads. | Rs. | Buildi | ngs. | D., | Other | works. | | RXXII |
| | New works Old works | 604 844 | 23,881 14,507 | New works Old works | ési mé | Rs. 22,724 9,593 | New works Old works | *** | Rs. 9,130 6,193 | |
| 4 | . Total | ۲., | | Total | | | W-4n1 | | *** | |

| | | | New works undertaken during to | he year. | | | |
|---------------|---|------------------------------|--|--------------------------------|-------------------------------|-------------------------------|--------------------------|
| Division. | Bulidings, | | Roads a | nd pathe. | | Others works. | Total expendi |
| | Do eription of buildings | Lxpendi- ture incuired | Description of roads or paths | I ength of road of path. | Lypendi- ture incurred. | Fapendi- ture incurred- | ture on new works. |
| 1 | 2 | 3 | 4 | š | 6 | 7 | B |
| BERAR CIRCLE. | | Rs. | | Miles. | Rs. | Rs. | Rs. |
| Direction. | • | •• | | | peb | *** | |
| Melghat " | Head-quarters houses Rest-houses Subordinates houses Other houses | 666 416 | | 3 0 14 40 | 108 32 | **** *** *** | 600 600 600 |
| | Total | 1,082 | | 17 40 | 140 | 188 | 1,416 |
| Amraoti . | Head-quarters houses Rest-houses Subordinates' houses Other houses | 2 163 | Regular cart roads Coupe and feeder roads . Inspection and other paths Alignment with road traces. | *** | * *** !** | 641 646 148 | 20h 80B 8 |
| | Total | 2,654 | | | *** | 214 | 2,654 |
| Buldana " | Head-quarters houses Rest-houses Subordinates' houses Other houses | | Regular cast roads Coupe and feeder roads Inspection and other paths Alignment with road traces. | 8 40 1 30 | 8,217 37 | *** *** *** | 200 205 430 205 |
| | Total | 8 | | 8 70} | 8,254 | 1,121 | 9 ,38 3 |
| Yeotmal ., | Head-quarters houses Rest-houses Subordinates' houses Other houses | 2,711 | Regular cart roads Coupe and feeder roads Inspection and other paths Alignment with road traces. | 8 10 | 1,803 3 | 98 944 914 984 | 676 886 410 979 |
| | Total | 8,288 | | 8 to | 1,806 | 3,175 | 13,469 |
| Akola | Head-quarters houses Rest-Houses Subordinates' houses Other houses | | Regular cart roads Coupe and feeder roads Inspection and other paths. Alignment with road traces. | 17 | 5,500 | 560 010 011 | *** *** *** |
| | Total | 2,500 | | 17 | 5,500 | 1, 32 5 | 9,325 |
| Nimar | Head-quarters houses Rest-houses Suborduntes' houses Other houses | 4,574 352 | | | 4,748 | ada dae tes arp | ** |
| | Total | 4,926 | | 35 | 4,760 | 4,307 | 13,995 |
| Setul | Head-quarters houses Rest-houses Subordinates houses Other houses | 318 300 | Regular cart roads Coupe and feeder roads 4 Inspection and other paths. Alignment with road traces, | 22 24 | 35 ² | #44 440 242 444 | rbb ebd ep |
| | Total " | 1,018 | | 46 | 402 | 525 | 1,945 |
| à | Total Berar Circle | 20,476 | | 132 40 | 40,862 | 10,641 | 5,1,979 |
| | Grand Total for C. P. and Berar | 58,493 | | 517 40} | 65,417 | 24,115 | 1,48,025 |

| | | - | Repurs executed of | during the v | eır | | | | |
|---|--------------------------|----------------------------------|---|------------------|------------------------|--------------------------------|--------------------------------|-------------------------|---------|
| Buildings | | | , | Roads and p | ıths. | | Other works. | lotil | Bemarks |
| Description of buildings | | Expendi- time meurical. | Description of a rul | or paths | Length repaired. | D pen li- ture incurred. | I spendi- t ire incurred | expenditure on repairs. | |
| 9 | | 10 | LI | | 12 | 13 | 11 | 15 | 16 |
| | | Rs. | | | Miles. | Rs. | Rs. | R. | |
| | | • • | | | | | 14 | 14 | |
| lead-quarters' houses Rest-houses Subordinates' houses Other houses | **; | 180 930 82 2 835 | Cut Roads Bridle paths Other roads | 44 30 43 | 399 0 309 0 14 0 | 3,16g 584 27 | *** | | |
| | | 2,767 | | | 721 0 | 3,780 | 373 | 6920 | |
| Head-quarters' houses Rest-houses Subordinates' houses Other houses | 411 411 411 | 159 177 411 21 | Cart roads Budle paths Other roads | | 69 40 3 40 " | 1,510 7 | *** *** ** | l bel | |
| | | 768 | | | 72 0 | 1,517 | 326 | 2,611 | |
| lead-quarters' houses Rest-houses Subordinates' houses Other houses | **; **; **; | 162 145 475 40 | Calt roads Bridle paths Other roads | 10 401 444 | 58 38 4 o | 850 8 | *** *** | 410 122 | |
| | | 802 | | | 62 38 | 858 | 567 | 2,227 | |
| Head-quarters' houses Rest-houses Subordinates' houses Other houses | 601 641 611 611 | 1,161 668 32 | Cart roads Bridle paths Other roads | ••• | 169 20 | 593 | ••• ••• ••• | ,,, | |
| | | 1,861 | | | 169 20 | 593 | 1,048 | 3,502 | |
| lead-quarters' houses est-houses Jubordinates' houses Other houses | bab Bar Baa Bad | 35 359 | Cart roads Budle paths Other roads | *** * / | 48 o | 419 | 414 496 | 104 106 114 | |
| | , | 394 | , | | 48 0 | 419 | 317 | 1,130 | |
| flead-quarters' houses Rest-houses Sabordinates' houses Other houses | 610 406 406 426 | 402 1,323 | Bridle paths | b) : # : | 173 0 | 972 ··· | yed Dog Dòg | #15 #11 #45 | |
| | | 3,116 | | | 173 0 | 972 | 1,020 | 5,108 | |
| Read-quarters' houses Rest-houses Suborduates' houses Other houses | 841 841 841 | 1,219 | | 928 948 | | 2,923 | #19 949 All | 445 445 | |
| | | 1,244 | | | 298 40 | 2,923 | 318 | 4,505 | |
| k . | | 10,95 | | | 1,554 18 | t t,052 | 3 985 | 25,997 | |
| P | | 27,28 | | | 4,159 18 | 31,881 | 12,08 | 71,252 | |

| At Planty my man and | industry and participals | | | Newci | es of the | e vear | | | | Diepo | -ed of du | ring the y | ሶ ኒኒ | | | · |
|---|--------------------------|--------------------------------------|-------------|--|--|-----------------------|--|----------------|----------------|----------------|-----------|------------|---------------|-----------------|--|--|
| | | | | ויח | <u> </u> | | | | Convi | ctions. | Augui | ttals | lot | :ai | | |
| Forest Di | ri lon, | P nding from previous ve ir | | ath r- ised felling or appro- priation of void and menor | (a) 1/10pg with ut persons of in or in tricts in which graving is pro- hibited | Other offen cus | lotal neu cirs of the year | Fotal. | Cuses. | Fersons | Ciscs | Persons. | Cases, | | C1ses pending it close of year. | Remarks. |
| 1 | | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | -0 | 11 | [2 | 13 | 14 | 25 | 16 |
| NORTHLEN C | ircll, c p | | | | | | | | | | | | | | | |
| Mandia(North an excluding Dh Range). | d South (A anwah) (U . | 60 | } | \$10 | 3 5r | 4 17 | 14 485 3 | 5 045 | \$ 5Ca | 1,678 | 2 | 7 | 10 562 | 99 1,678 | 6 83 | |
| | Total . | 61 | ıı | \$17 | 53 | 21 | 602 | 663 | 570 | 1,700 | 2 | 7 | 572 | 1,707 | 89 | |
| Jubbulpore-Nars (including Di Range). | anghpui A hanwahi B C | 71 | 1 | 1 | 3 201 2 | | 4 447 37 | 6 519 37 | 3 457 •• | 1,363 | | 7 | \$ 457 | 13 1,363 | 62 | ي. د |
| | Total | . 74 | 43 | 217 | 206 | 12 | 488 | 562 | 460 | 1,369 | 3 | 7 | 462 | 1,376 | 63 | |
| Damoh | A B C | . 5 | 1 1 | 1 | 1 | i | | 500 | ì | 1 | #1 | | 4 362 | 6 1,102 | 4 138 | |
| | Total | ··· 5 | , , | 245 | 227 | 5 | 500 | 552 | 366 | 1,107 | | 1 | 366 | 1,108 | 145 | |
| San gor | В | 1 . | 3 3 4 | 4 235 4: | 1. | 10 | 1 | 612 | 578 | 1 | 1 1 | 5 | 16 \$78 | 1 . | 3 34 | |
| | Total | . 3 | | 280 | 972 | 11 | 687 | 721 | 591 | 1,618 | 3 | 5 | 594 | 1,633 | 37 | |
| Hoshangabad | . B | pro- | | 63 | 64 | 1 | 1 1 | 134 | 117 | ì | | 1 | 3 217 | 1 - | 1 1 | |
| | Total | | 5 | 63 | 66 | | 133 | 139 | 120 | 389 | | 1 | 130 | 390 | 17 | |
| Sconl | \a | . 3 | 1 | 1 | €5 |] ; | 1 | 299 | 280 | 761 | 1 ' | #\$ | 288 | | 1 |) |
| | Total | - 3 | 4 9 | 301 | 55 | 11 | 288 | 322 | 29; | 7 778 | | 3 25 | 300 | 0 80 | 25 72 | |
| Chlundwara | В | *5 | , | ; 18 1 251 7 8 | 266 | ì | 1 | 583 | 48; | 1 | 1 | 47 | 33 487 | 1 . | 1 | "Ont of the 18 carre pending at the close of the year one was lat- terly cancelled, |
| | Total | 6 | 1; | 1 277 | 276 | 13 | 579 | 644 | 510 | 871 | 10 | 47 | 520 | 918 | 3 109 | • |
| Grand Total | , B | 3 3; | ء [، | ł | 1,195 | 56 | 1 | 3,292 | 2,84 | 1 - | i | 93 | 83 2,851 | 7,695 | 5 44X | |
| • | Total | 52 | ţ 13 | 1,810 | 1,055 | 70 | 3,277 | 3,603 | 2,91 | 7,842 | 20 | 93 | 3,934 | 7,91 | 468 | , |

v. 8.—A. means cases when into Court. B. means dases disposed under Section 57 of Indian Forest Act, 1879. C, means undeterted cases.

YXXX

FORM NO. 13.—Register of Breaches of Forest Rules during 1912-13.—(Contd.)

| | والمستقد ويسي جانب الهاد | | - | Newca | isc, of the | . yca | | | a Baragania - Alifanda da | Dirpo | ed of du | ring the | T (IF | | | and the second second second second second second second second second second second second second second seco |
|--------------------------------------|--|-------------------------------------|----------------------|---|--|-----------------------|--|------------------|---------------------------|-------------|----------|----------|------------------|--------------------|--|--|
| | | | | Un | | | | | Convic | tipns | Acquit | it ils | i ot | U. | | |
| Forest Div | | C 19c pending from 1911-12 | to frei by fue | unnoi of R of bilition or ibbio felliuf | ot in tricks in which grazing | Other offen ees | Total new ulv s of the sett. | Iolai c 15c5 | (۲۰۹۲) | l'er on | Cic | Per onc. | Carcs. | | (1965 pending if close of yen | Remarks, |
| \$ Phone returns or the absence pro- | - | 2 | 1 | + | | 6 | 7 | . | 0 | 10 | 11 | 13 | r; | 11 | 15 | 16 |
| SOUTHERN CI | R(11, (P. | | | | | İ | | | | | | | | | | |
| Beleghal | B C . | 4 53 | g | 2 224 8 | 275 | , , | 461 461 | 7 ,16 | 4 4C) | 7 1,172 | | 20 | ל פא, | 77 I,1,2 | ,7 | |
| | Total | 57 | ь | 2 S | 2-2 | , | 171 | 531 | 473 | 1,1,4 | 3 | 20 | 176 | I,1)) | 47 | |
| Chandra | { | I I | | 7 1,6 | 19n 3 | I | 10 ^2/ 22 | 2,4 2,4 11 | 7 314 | 75. 95.3 | 3 | 3 | 314 | 18 952 | 14 | |
| k | Total | | | 181 | 193 | ı | 369 | -71 | 721 | ()57 | | 3 | 32 # | 970 | 15 | |
| Bilaspur | {A B | 18 I | 1 | , 110 | 93 | 2 | 15 210 | 16 259 | 16 241 | 15 590 | | 43 | 16 241 | 89 *89 | | |
| | i, Oj Total | | 9 | 113 | 102 | | 9 | 9 | | | •" | | | | 17 | |
| North Chanda | {Α {Β | | 14 | 4 338 | 8 | | 134 | 283 12 564 | 257 0 518 | 97 2,171 | 3 | 23 | 257 12 518 | 677 60 2,171 | 46 | |
| | C | . 61 | · . | 370 | 147 | 111 | 523 | 184 | \$27 | 2,908 | 3 | | 530 | 9,231 | 46 | |
| South Chanda | \{\begin{array}{c} A & \dots \\ B & \dots \\ C & \dots \end{array}\right. | | | 5 177 | 3 B5 | | 9 26; | 10 | 8 | 713 C65 | 3 | 3 | 10 271 | 16 665 | 13 13 | |
| | Total | 1 | 3 | 183 | 98 | 1 | ±75 | 296 | 279 | 078 | 2 | 3 | 18¢ | 681 | 13 | |
| Nagpur-Wardha | $\begin{bmatrix} A & \vdots \\ B & \vdots \\ C & \vdots \end{bmatrix}$ | 2 11 | | 7 44 19 | 103 | 3 7 | 19 154 34 | 165 | 158 | 78 443 | | 1 104 | 158 | 79 448 | 8 7 | |
| | | . 13 | 16 | 70 | 111 | 10 | B G- | 230 | 2/0 | 526 | ī | , , | 191 | 527 | 15 | |
| Raiper | \{\begin{array}{c} A & \\ B & \\ \C & \\ \end{array}\end{array}\rightarrow{\text{\column}}{\text{\column}} \rightarrow{\text{\column}}{\text{\column}} | 65 | 4 15 | 178 | 1 | " | 1 | 531 | 477 | 1 | 1 | 79 | 34 477 | 110 2,181 | 3 \$4 | |
| | Total . | . 65 | 30 | 187 | 283 | 14 | 514 | 570 | 498 | 2,212 | 13 | 79 | 511 | 2,291 | 57 | |
| Total Southern (| Chele ABC | 26: | 7 2 39 50 | 1,23 | 1 1,097 | 1 | 2,38 | \$ 2,646 | 2,14 | ł | | 171 | 108 2,448 | i '. | | ł |
| | Total | 27: | g 8; | 1,32 | 1,149 | 3! | 2,59 | 3 2,86 | 2,52 | 5 8,39 | 25 | 175 | 2,550 | 8,566 | 5 A10 | - |

| | Depute Andrian en en en 9, se se el c | | The Later Management of | New cr | e of th | e /car | | | es pais protection was | Dispo | acd of du | ring the |)car | | 71.1*********************************** | |
|--|---------------------------------------|--------------------------------------|----------------------------------|----------------------------|---|------------|------------------------------|-----------------|------------------------|---------------|-------------|----------|--------------|---------------|---|---|
| Γores⁺ 1: | N 1= f fl | Cin 9 Jen ling from 1911 12 | Injury to fo st by tire | feiling or oppio | Giling without per- msim orin trut in which | ะแะ เกร | Total new (1965) of the year | Intal C1469. | Convic | | Acqui | | Tot | | Cases. Rending at close of year. | Remails, |
| SHARESTONEY AND ADDRESS OF THE PERSON NAMED IN | | | | minor E)r st produce | gra7ing i pro- hibited | | | | | | | | | | | |
| | I | 2 | <u> </u> | 4 | 5 1 | 6 | 7 | 3 | 9 | 10 | 11 | 17 | 1 | 1; | 15 | 16 |
| DI RAR CI | IRCLL, C.P. | | 1 | | | | 3 | , | 3 | 18 | | | 3 | 18 | | |
| Meighat | {B {C. | 2 | I | 67 | 12 | 8 | 94 | 26 | 86 | 336 | | | 86 | 236 | 10 | |
| | Total | | | 67 | 12 | 10 | 97 | 99 | 89 | 251 | <u> </u> | <u></u> | 89 | 34 \$ | 10 | |
| ∧mrao11 | \int_{D}^{Λ} | 10 | ì | 46 | 181 | 52 | 2 2 2 | 6 192 | 5 267 | 8,9 | 1 | | 6 267 | 1I 8,8 | 25 | |
| a some dij 18 | · (c | | 3 | | 101 | | 3 | | | ••• | | | ** | | | |
| | Total , | 12 | 1 | 46 | 787 | ţ3 | 259 | 01 | 272 | 865 | 1 | 1 | 273 | 989 | 25 | |
| Buldan 2 | $\binom{A}{B}$ | 2) | 1 | 4 759 | 1 112 | 229 | 14 δ,ο | 16 869 | 13 833 | 2,350 | 2 | 23 | 15 833 | 13 2,950 | 1 36 | |
| | c | | ı | | " | | נ | | | | | | | • | | |
| | Totu . | 31 | 1 | 171 | 145 | 246 | 563 | 504 | 816 | 2,370 | 2 | 33 | 849 | 2,393 | 37 | |
| Yeotmai | \int_{B}^{Λ} | 69 | 4 | 9 668 | 1,253 | | 2,036 | 2,105 | 9 2,004 | 1 | . 2 | 4 | 2,001 | 1,447 | | |
| | lc . | , | | 11 | - | | 11 | 11 | | | | | 100 | | | |
| | Total | бд | - | 685 | 1,255 | 111 | 2,048 | 2,127 | 2,013 | 4, 164 | 2 | 4 | 3,015 | 4,169 | 101 | |
| Akola | {A | 18 | | 151 | 16 195 | 6 | 5 45 3 | i . | 18 553 | 1,627 | | 27 | 553 | 50 1,627 | 10 | *Two cases withdrawn and dealt with under Section 67. |
| | Total | 18 | | 163 | ioi. | 6 | 170 | 598 | \$71 | 1,640 | ļ- <u>-</u> | | 575 | 1,077 | 10 | |
| - | ſΛ | 1 | | 1 | 2 | 6 | 12 | 17 | 10 | 23 | | 3 | 1.1 | 26 | , | |
| Nimar | {r | 28 | 3 5 | 179 | 7,13 | 91 | 415 27 | 173 27 | 432 | 1,293 | | | 433 | 1,293 | 40 | |
| | lotai , | 29 | 7 | 205 | 235 | 37 | 194 | 517 | 442 | 1,316 | 2 | | 414 | 1,719 | 42 | |
| Betai | (, . | | 1 | | 2 | ı | 4 | 4 | 4 | 4 | , , | | 1 | 4 | 3 | |
| merit | B C. | 132 | 23 | #5a | 138 | 22 | 415 13 | 4 6 13 | 4 ¹ 1 | I,t00 | | 3 | 413 | 1,103 | 9.4 | opening balance should be 3r instead of ro as now reported by Divi- sional Forest Officer. |
| | Totaj , | 31 | 14 | 255 | 140 | 23 | 432 | 463 | 415 | 1,104 | r | , 3 | 416 | 1,107 | 54 | |
| Saint Water to | A | 5 | , | 23 | 29 | 16 | 70 | 75 | 62 | 111 | to | GI | 72 | 178 | 3 | |
| Grand Total Ber | ar Circle B | 187 | 13 22 | 1,518 44 | 2,647 | 169 | 4,657 66 | 4,844 66 | 4. 4.8 6 | 11,931 | | 3 | 4,588 | 11,034 | 256 | |
| | Totai | 198 | 37 | 1,595 | 2,675 | 485 | 4,793 | 4,985 | 1,618 | 12,013 | 19 | | 4,660 | 12,107 | 259 | |
| Total Central P | ٠ ا _م " | 289 | 1\$ 93 | 97 4:449 | 112 4,939 | 15 551 | 269 10,023 | 229 10,782 | 302 9,885 | 477 27,862 | 54 | 1 | 257 9,887 | 803 27,805 | 42 894 | |
| | Total | | 152 266 | 4,727 | 5,080 | 5.5 596 | 871 10,663 | 371 | 10,087 | 28,279 | 57 | 329 | 10,144 | 28,6a8 | 937 | |

N. B.—A. means cases taken into Court.
B. means cases diaposed of under Section by of Indian Forest Act, 1878.
C. means nadeterted cases.

| Бічыоп | Forest tracts | Year in which piates tion commenced | Area protected during 1911-19 | Aica attempted to be protected | Padures | Arez actually protected | Cest | Remarks, |
|---|--|--|-------------------------------|--------------------------------|---------|----------------------------|-----------------|------------------------|
| <u> </u> | 2 | | 1 | - 5 | 6 | 7 | 8 | 9 |
| AMMINISTRATION AND AND AND AND AND AND AND AND AND AN | NORTHERN CIRCLE | | Acres, | Acres. | Acres | Actes, | Rs. | |
| ļ | Systematically fire- protected areas. | | | | j | | ľ | |
| North Mindle | Mandle Range | | 9,009 | 9,009 | 2 | 9,007 | 658 | i Fire. |
| (old Mandla) | Sairst il , | | 787 | 787 | 140 | 647 | 47 | ı " |
| | Total North Mudla . | | 9,796 | 9,796 | 142 | 9,654 | 705 | Failure 1'45 per cent. |
| ſ | Jagmandal Range | | 35 643 | 35,984 | 3 | 35 981 | 969 | 1 Fire |
| South Mandla | Banjar ,, | | 62,512 | 62,513 | 17 | 62,495 | 1 419 | 1 11 |
| (old Mandla). | Motinala " | | 84,822 | 86,114 | 409 | 85,705 | 1 ,6 60 | 2 Fires. |
| ţ | Kuanja " | | | 68,629 | 3,4 1 | 65,188 | 1 155 | 5 ,, |
| | Total South Mandla | | 182,976 | 253,330 | 3,870 | 249,369 | 5,203 | Fulure 1'53 per cent. |
| | Total Mandla (North | h | 192,772 | .263,035 | 4,012 | 259,023 | 5,908 | |
| ſ. | and South). Maxwara Range . | | 37 366 | 38,865 | 180 | 38,685 | 1,017 | a Fires. |
| | Sihora " | | 7,077 | 10,235 | 2,948 | 7,287 | 401 | 5 n |
| | Jubbulpore " . | | 36,833 | ვი,858 | 111 | 36,858 | 1,189 | |
| Tob but a second | Bargi " | ,, | 2,251 | 2,261 | 10 | 2,251 | 162 | ı Fire. |
| Jub bu l por c- | Dhanwahi ,, | | 45 472 | 47,116 | 2,102 | 45,014 | 537 | 5 Fires. |
| (including Dhanwahi | Bachai " | | 25,871 | 25 939 | 24 | 25,915 | 586 | 1 Fire. |
| Range). | tichhai , | | 6,105 | 6,1,33 | 573 | 5,560 | 222 | I ,, |
| L | Khaiti " |) ,, | 40,045 | 40,513 | *** | 40,513 | 486 | |
| ; | Total . | | 201,030 | 207,920 | 5,837 | 202,083 | 4,500 | Failure 2:81 per cent. |
| (| Northern Range | ., | 16,983 | 53 964 | 5,237 | 48,727 | 582 | 8 Fires. |
| D | Central " | \$ | 38,843 | 54,479 | 2,200 | 52,279 | 625 | 2 ,, |
| Damoh | South-Western , | | 68,269 | 102,588 | 14,901 | 87,687 | 1,178 | 4 и |
| (| South-Eastern , . | .] | 69,906 | 69,931 | 5,416 | 61,515 | 75 ² | 5 и |
| | Total . | THE DESIGNATION OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASS | 194,001 | 280,962 | 27,754 | 253,208 | 3,137 | Failure 988 per cent. |
| | Saugor Range | | 34,180 | 35,497 | 2,303 | 33 194 | 891 | 11 Fires, |
| | OALE | - | 43,1 12 | 54,190 | 80 | 54,110 | 996 | ı Fire. |
| Sauger | Thurs: | | 19,805 | 24,455 | 2,132 | 23,323 | 989 | 6 Fires. |
| | Danda ' | ** | 28,810 | 33 300 | 4,190 | 29,110 | 793 | 5 u |
| | m | ** | 31,052 | 29 718 | | 29,714 | 253 968 | ı Fire. |
| | #11_4_1 | *** | 156,989 | 177,160 | 8,709 | 168,451 | 4,637 | Failure 4'92 per cent. |
| | T PARTY S | | CARLORINA STATEMENT SHEET | | | | | and the same |
| ſ | Bori Range . | | 167,931 | 170,638 | *** | 170,638 | 762 | |
| | Sohagpur " | | 59,545 | 59,715 | • | 59,715 | 1,471 | |
| Hoshangabad | Hoshangabad " | | 41,216 | 53,854 | 417 | 53,854 | 1,482 | |
| and the second | Seoni " | .] | 80,892 | 80,931 | 64 | 80,867 | 1,418 | 1 Fire. |
| | Rehatgron ,, | | 93,851 | 93,851 | 85 | 93,766 | 921 | x ,, |
| [] | Nagardha , | | 80,504 | 80,686 | *** | 80,686 | 624 | |
| | Total . | *** | 523,939 | 539,675 | 149 | 539,526 | 6,678 | Failure 003 per cent. |

FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from Fire during the year 1912-13 — (Contd.)

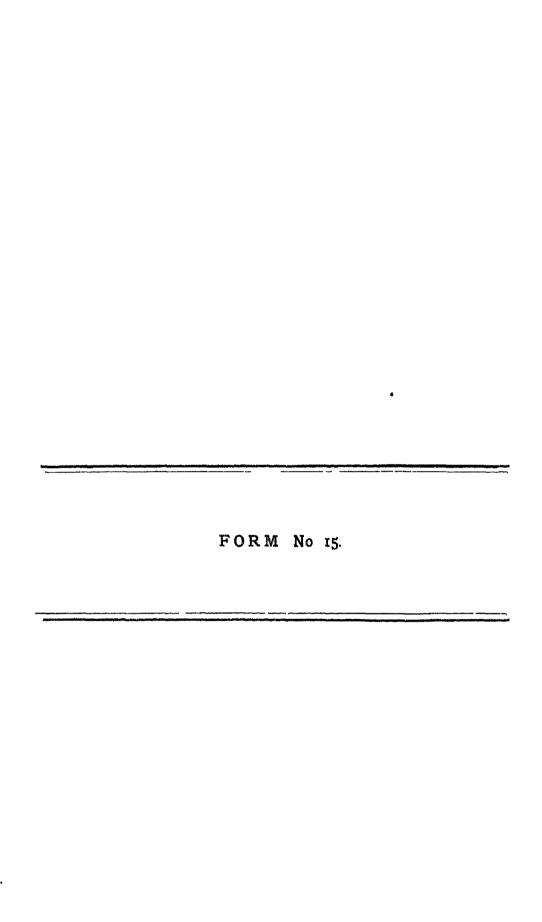
| Division, | Poicet tract | | Ye a m slah protectica commencel | Area protected ductu 1911-1 | Are entitempted to be particular. | Ladures. | Aies setuilli protected. | Cost. | Remarks. |
|----------------|---|----------------|--|--------------------------------|-----------------------------------|------------------------|-----------------------------|-------------|-----------------------|
| 4 | - ,- | | 3 | 1 | - | 6 | 7 | 8 | 9 |
| | NOR THE | | | Λαω | Acie, | Acte- | Acre | Rs. | * |
| (| Sy temetically tested an so-1 Korn Rang | (Cond1) | | 80 315 | £ 6,316 | 2 | 86,314 | 2,178 | ı Fue. |
| | Guignala , | | • | 78,011 | 78,011 | 17 | 77 901 | 1,369 | 2 Fues, |
| | Uşli , | | | 79,58 | 80,155 | 762 | 79-373 | 1,450 | 1 ,, |
| eoni | Chloren | • | | 5 56, | 6 336 | 131 | 6,225 | 454 | 2 ,, |
| | Dhuma , | | , | 1 f77 | 2 300 L | 284 | 2,012 | 103 | t Fue. |
| | | • | | 8 731 | 10,901 | ., | 1001 | 524 | |
| , | Naidani ,, | tal | | 259,185 | 203,125 | 1,196 | 26:,929 | 6,118 | Fadure 0 45 per cent. |
| , | Umreth Ran | | | 30 935 | 52,715 | 335 | 52,380 | 453 | 7 Fires. |
| | | | | 17,940 | 34,002 | 20 | 33,982 | 6 | r Fire |
| hhindwara | | ••• | | 25,311 | 71 659 | 176 | 71,493 | 701 | 4 Fires. |
| Minnanaire III | | | 7 | 45,242 | 47 716 | 64 | 47,652 | 5.28 | 3 " |
| | Sank , | | | 37,713 | 33,517 | 263 | 33,254 | 262 | 2 ,, |
| | 1 | tal | | 166,170 | 239,606 | 858 | 238,751 | 1,950 | Failure 0'36 per cent |
| | TOTAL NOR | | | 1,692,786 | 1,971,486 | 48,515 | 1,922,971 | 33,028 | Protected 97'54 pe |
| | CIRCLE | | | 1,0921700 | 1,9/1,4% | 40,010 | | | cent. |
| | Sonawani | *** | -00- | 67,194 | 67,456 | | 67 456 | 1,060 | |
| • | Paraswaia | *** | .0 | 65 834 | C8 384 | 3,519 | 64 865 | 955 | 3 Fires |
| | Raigath | ,, | 1867 | 103,885 | 108,080 | 300 | 108,680 | 1,080 | 2 , |
| alaghat< | Dhansua | ••• | -00- | 129,190 | 129,190 | 440 | 128,750 | 1,005 | 2 ,, |
| | Lanji | 48 | 1896 | 42,650 | 42,086 | | 41,429 | 1,099 | 3 " |
| | Baihar | | 1899 | 64,143 | 64,143 | 1,257 | 63 353 | 1,308 | 3 11 |
| • | To | 4-1 | | 478,396 | 480,839 | 790 | 474,533 | 6,508 | Failure 1'3 per cent, |
| | Bawanthari | | -0 | 79,668 | | 6,306 | 68,987 | 998 | ı Fire, |
| | Gaikhuri | *** | - 000 | 102,729 | 69,017 80,298 | 30 | 80,095 | 1,620 | g Fires, |
| lhandara | Pertabgath | | | 63,382 | 62,605 | 203 838 | 61,767 | 1,500 | 4 15 |
| | Wainganga | 100 | | 38,173 | l . | • | 40,182 | 692 | 2 ,, |
| | 1 | ital | | 283,952 | • | 44 | | 4,810 | Failure :44 per cent. |
| | East Lormi | ••• | | 156 916 | 252,146 | 3,030 | 251,031 151,095 | 1,463 | 2 Fires. |
| | West Lormi | *** | 1 | 126 369 | 154,125 | | 126,704 | 1,590 | |
| Bilaspur | | | | 49,859 | 52,470 | " | 61,556 | 955 | 3 Fires. |
| | Sonakhan | 44 | | i | l | 914 | 66,464 | 565 | 4 , |
| | | otal | - | | | | 405,819 | 4,573 | Failure 1'25 per cen |
| | Mohari | | | 391,234 | | • <u> </u> | 243,874 | 5,729 | |
| | Haveli | *** | | | 1 | 1 | 126,810 | 3,523 | |
| | Warnen | ** | | 1 | | 1 | 1 | 5023 692 | |
| North Chanda. | Gunjewahi | | -000 | 1 | 1 | · · | 35,920 | 451 | 3 Fires. |
| • | Brohmapuri | | | 1 | | 1 | 23,908 | 1 | 3 " |
| | Wairagarh | | | | | 1 | 1 | 507 | 1 |
| | _ | i. e. 4 | | - | | - | | 555 | Failure '91 per cent, |
| . | 1 | mark | 9 949 | 464,097 | 476,143 | 4,338 | 471,805 | 11,457 | Vernore Ar her rettt |

FORM No. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1912-13.—(Contd.)

| D1/ 14/011, | lor st trut | Yeu in which 11 fection omnicised. | As a protected during 1910 11 | Aict attempte l | Pulites, | tica actually protected | Cost | Remarks |
|-------------------------------|------------------------------------|---------------------------------------|-------------------------------|------------------|------------|----------------------------|--------------|--|
| 1 | 2 | | 4 | 5 | 6 | 7 | 8 | 9 |
| Demandership of second second | SOUTHERN CIRCLE, | | Acto | Acres | Aercs. | Actes. | Rs. | |
| | Sistematic Us fire protected evers | | | | | | | |
| (| Allapilh | . 1873 | 72,045 | #3.04 5 | *** | 7 3,94 6 | 2,857 | |
| Ì | Ghot | 1897 | 83,761 | 72,016 83.991 | 105 | 83 885 | 669 | ı Fire. |
| South Chands, | Mailbanda | 1891 | 1 70 594 | 129,594 | | 120 594 | 1,290 | 11116. |
| | Suoncha . | (a) 1897 | } (6623 | 97 901 | ••• | 97,901 | 902 | (a) Partial protection. (b) Protection. |
| | Diaba | 1899 | 166,099 | 107,017 | 95 | 106 912 | 1,918 | 1 Fire. |
| | Total . | | 480 823 | 491,439 | 201 | 491,238 | 7,636 | Failure '04 per cent. |
| (| Fast Pench . | .000 | | | | | | |
| İ | West , | 1875 | 90.458 60.551 | 137,131 | 20 | 137,412 | 1,223 | 2 Fires. |
| <u>.</u> i | Kandhali | 1894 | 30.054 | 75 340 39,895 | 592 19 | 74 748 38,876 | 514 843 | 3 ,, |
| Nagpur-Wardha { | Umler . | 1895 | 20,875 | 40,740 | 197 | 40,543 | 794 | 3 , ³ |
| | Hingm | 1814 | 12,553 | 42,780 | 165 | 42,115 | 328 | 1 , |
| { | Arvi | 1880 | 15,115 | 50 536 | 764 | 49,772 | 409 | 3 % |
| | Total . | , ,,, | 218,606 | 385,232 | 1.757 | 383,465 | 4,111 | Failure 46 per cent. |
| (| Laon . | | | | | | | · - |
| | Same Weallest | 1989 | 46,458 | 46,572 | 962 | 45,610 | 1,065 | 3 Fires. |
| Ì | Dhamtari . | | 38 600 | 38,993 | 379 | 38,615 | 1755 | 5 ,, |
| | Singpur | 1000 1006 | 67,065 50,153 | 67 858 | 2,5to | 65,348 62,219 | 7,385 895 | 3 ,, |
| Raipur | Balod | | 59,172 67,534 | 60,959 67,798 | 740 481 | 67,317 | 1,016 | · • |
| | North Sihawa | | 152,711 | 155413 | 14,068 | 141,345 | 1 634 | |
| ! | South Sihana | | 162,125 | 162,312 | 11,722 | 150,590 | 1,178 | 4 11 |
| į | Billan Ghuçwa | | 1,606 | 1,606 | 223 | 1,383 | 40 | ı " |
| | Total | *** | 595,601 | бот,511 | 31,084 | 570,427 | 8,959 | Failure 5'17 per cent. |
| | Total Southern Circle., | , ,,, | 3,921,709 | 3,098,263 | 49,945 | 3,018,318 | 48 054 | Protected 98'39 per |
| ſ | Sembadh Range . | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 77,696 | 77,696 | | 77,696 | ``` | cent. |
| | Chamakand , . | | 6,3,677 | 63,877 | *** | 63,877 | | |
| ļ | Buitama ,. | 1872 | 77,242 | 81,992 | _ 41 | 81 951 | | ı Fire. |
| Melghat { | Khandu " . | .[] | 90,484 | 85,739 | 9 | 85,730 | 7,167 | ŧ " |
| | Gugamal , . | 1877 | 151,731 | 151,961 | 800 | 151,161 | ar Career | I ,, |
| | Chikalda ". | . 1890 | 31,242 | 34,242 | | 34 242 | | |
| ţ | Tapti Reserve . | 1911 | 26,834 | 26,862 | , 500 | 26,362 |) | I n |
| | Total . | 111 | 522,106 | 522,369 | 1,350 | 521,010 | 7,167 | Failures 258. |
| Amraoti { | Amraoti . | 1881 | 18,483 | 18,382 | 58 | 18,324 | } | |
| Ammoti { | Wariti . | 1889 | 19,507 | 19,511 | 40) | | } 1,066 | 3 Files. |
| | Total | 70 | 37,990 | 37,893 | 58 | 37,835 | 1,006 | Failure '15. |

FORM NO 14.—[PRESCRIBED]. -- Area of Forest Tracts protected from fire during the year 1912-13.— (Concld.)

| Diss | 10th. | 1 0168 | t trici» | | Ve tr in which protection commenced | Aic i protecte l during 1911-12 | Ar rattempted to reprotected | Iulune | Area actually protected | Cost, | Remarks, |
|------------------|--------|----------------------|------------|-------------|---|---------------------------------------|---------------------------------|------------------|-------------------------|--|--|
| t | | 9 | | - | 3 | 1 | 5 | b | 7 | 8 | 9 |
| | | BUDAR | CIRCIT | | | Acres | Autes | Acres | Acre. | Rs. | |
| | | (Ci | oneld) | | | | | | | | |
| | | Jalgaon F | Range | | 1893 | 34 395 | 34 430 | 1,483 | 32,947 |) (| 1 Fues |
| Buldana | } | Chikhli | D | •• | 1880 1880 | 68,335 | 68,345 | | 68 345 | - - | |
| | | Puini Mehkar | 12 | | 1881 | 28,291 28,956 | 23,063 | | 23,063 | 12-33 | |
| | (| nichkar | 11 | 9.21 | 7651 | 20 950 | 2º 056 | | 28 956 | J | |
| | | | Total | • | *** | 1 \2 967 | 153 794 | 1,183 | 152,311 | 1,853 | Failures g. |
| | ſ | Yeotmal | Range | | 1827 | 45,874 | 45,874 | | 45,874 | | |
| | | Dunha | 11 | | 1882 | (8,551 | 38,851 | 10 | 38 841 |] | ı Fite |
| | | Kelapur | 1) | •• | 188t | 59,147 | 59,147 | 130 | 59,017 |] [| ı Fire, |
| Yeo tinal | ₹ | Wun | 31 | | 18 03 | 21,792 | 21,392 | | 21,392 | | |
| | _ | Pusad | 19 | ** | 1880 | 153,511 | 156,041 | | 156,041 | 3,284 | |
| | | Baldı Pnd | li Reserve | | 1108 | 2,4 32 | 2,432 | ,,, | 2 ,432 | | |
| | ţ | Urdı | ,, | | 1908 | 4,480 | 4 489 | | 4,489 | | |
| | | | Total | | * * | 325,726 | 378,226 | 140 | 328,056 | , 3,284 | Failures 04. |
| | ſ | Pangra | Range | 11 | 1882 | 41,566 | 44 591 | | 44,591 | 3,204 | 1 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Akola | } | Moina | 3) | •• | 1 8 91 | 21,924 | 21,824 | 25 | 21,790 | İ | |
| | | Balapur | ,,, | | 1881 | 302,505 | 32,878 | | 32 878 | 1,427 | 1 Fire |
| | () | Murtizapui | ı " | ••• | 1902 | 25 | 25 | *** | 25 | | |
| | | | Total | *** | | 99,320 | <u>9,318</u> | 25 | 99,293 | 1,427 | Failmes 02. |
| | { | Khandwa | Rirge | • | 1877 | 44,452 | 42 897 | 90 | 42 807 |) — , ; } | I Fire. |
| | | Purisa | 1) | •• | 1875 | 94,458 | 93,698 | | 93,698 | | |
| | | Chandgarh | 11 | ••• | 1878 | 88,144 | 88,149 | 1** | 88,149 | | |
| Vimar | | Singaji | 19 | •• | 1893 | 41,429 | 44 378 | 635 | 43 743 | | 1 Fire. |
| | | Piplod | 13 | * | 1890 | 8,98ç | C2,592 | | 62 592 | 11,726 | * Includes area Bhainsa Range sin abolished. |
| | | Chandni Burhanpur | 33 | * | 1893 | * 78,729 | 65,172 | 7 ⁸ 5 | 64,387 | | 3 Fires. |
| | | Kalıbhit | h | " | 1893 | 80,185 | 110,297 | 9,640 | 110,657 | | 2 Fires. |
| | 1 | |); | ** | 1874 | 121 593 | 181,487 | 70 | 181,417 |] | 1 Fire. |
| | | | Total | • | , | 557,979 | 688,670 | 11,270 | 677,450 | 11,726 | Failures 1 6. |
| | | Ranipur | Range | *** | 1880 | 52,031 | 52,184 | 543 | 51,641 | -1,740 | 4 Fues. |
| | | Bhawargar | ** | ••• | 1875 | 79 652 | 79 902 | 441 | 79,902 | | a Fires. |
| | | Saonligarh | " | ••• | 1875 | 80 380 | 80,380 | 1,571 | 78,809 | } | |
| ietu! | | Tapti D. L. | 27 | , | 1875 | 102 555 | 125,185 | 1,196 | 123,989 | 7,168 | r Fire. |
| | | D, bka Sawalment | " | •• | 1897 | 7 2,423 | 31,350 | 4 100 | 31,350 | | |
| | | Asir | | •• | 1898 | 49 011 | 4,151 | -tetr | 4,151 | | |
| | 4 | Upit | n Total | ••• | igot | 122,177 | 123,809 | 730 | 123,079 | | a Fueș. |
| | 1 | Total Ber | | *** | - | 578,229 | 496,961 | 4,040 | 492,921 | 7,168 | Failures '81 '79- |
| 1 | | GRAND TO | FAL CENTE | T & S | | 2,274,317 | 2,327,231 | 18,316 | 2,308,915 | 33,691 | Protected 99 '21. |
| | 1 | PROVINCES | AND BER | AR. | nd | 5,888,812 | 7,396,930 | 116,776 | 7,280,204 | 1,14,773 | Protected 98. |



| 1 | icaiden Caretea i | cs caused by | | | | | | | | | | |
|---|----------------------|----------------------------|--------------|---|--------------------------------------|---|---------------------|--|---------------|-------------------------|-------------------|-------------------------|
| i (| icaiden Caretea i | t or through | | | j | | Ov | ving to carele | squess of acc | ndent. | | |
| | | ucs- m buin- hic I nes. | 1hc | nepert mir forest by investerior etree | ed in t by pure ore t rud t | n n employ- lic forest, histers of wreduce is ja! iters. | let a &-c Ultrot | ers, trivel- presing igh the usts | Rv F | ? ulway gancs. | By ligh fire b | tung or by |
| | No of lires. | And Immit | No of tire . | icabant nace | No. ct | Area burni in acres, | Nn if fires | Are a herrat | Vo. of ines. | Area baint in acres. | No of fires. | Area burnt in acres. |
| 1 | 2 | 3 | 1 | 5 | б | 7 | 8 | 9 | 10 |)1 | 13 | 13 |
| NORHERN CIRCLE | | | ļ | | | | | | | | | |
| North Mandla (Old Mandla) | 1 | .2 | •• | 1 | 18 | *** | | | | | | |
| South Mandla (Old Mandla) | ٠ | ,, | a | | 3 | 3,176 | 2 | 303 | | | | *** |
| Jubbulpoic Narsinghpole (Including Dhanwahi Rangea) | 1 | 6 | 2 | 96 | б | 7,276 | 7 | 10 | *** | | ", | |
| Damoh | 2 | 9,5 65 | - 4 | 3,431 | 1 | 3,940 | 3 | 2,030 | | | *** | |
| Saugor | 2 | 29 | 1 | 4 | 1 | 1 272 | | ••• | 3 | 160 | 40. | *** |
| Hosh ingehad . | , | ٠٠. | •• | *** | | | | | | *** | *** | *** |
| Seoni | 3 | 288 | 3 | រន | 2 | 131 | • | a d a | | | *** | |
| Chhindwara | 2 | 120 | | | *** | | 8 | 245 | *** | | **, | àta |
| Total | 11 | 10,010 | 12 | 3,654 | 13 | 10,695 | 14 | 2,588 | 3 | 160 | *** | ••• |
| SOUTHERN CIRCLE. Balaghat | | 50 | | 550 | _ | ##A | | | | | | *** |
| Dhandam | 3 | 6g | 3 | 777 | 3 | 700 606 | 2 | · | "" | 267 | *** | , |
| Bilaspm | 7 | 44 3.00n | 6 | 135 1,594 | 3 | | | 63 | 3 | | 14, | |
| North-Chanda | | 1 | ł | j | ••• | | 444 | | | 386 | *** | *** |
| Court Ohanda | ••• | " | | *** | ••• | "] | 1 | 106 | | | ••• | |
| Name of March | | | *** | | *** | | | 218 | *** | **1 | *** | *** |
| Da: | 3 | 233 681 | 2 | 18 | • | 0 | 6 | | ••• | p++ | *** | *** |
| Total Southern Circle ., | 7 | 4,027 | 3 | 11,207 | 12 | 778 2,084 | 16 | 7,011 8,298 | 5 | 382 1,035 | *** | *** |
| BERAR CIRCLE. | | | | | | | | | *********** | | | |
| Melghat | 1 | 800 | 144 | **1 | ••• | | 3 | 550 | *** | [| | ### |
| Amraoti | | | | | | 4 | ** | | | | | *** |
| Buldana | 2 | 503 | 1 | 800 | ¥41 | | 651 | | | | #SL | *** |
| Yeotmal | | | | | | | I | 130 | | | *** | new (|
| Akola | | | 1 | 25 | •24 | | 194 | | • | | •4, | And , |
| Nimar | 1 | 70 | | ٠,, | 2 | 470 | | | x | 95 | *** | |
| Betul | 3 | 2;0fi | ••• | | 5 | 1,972 | | | | | *** | *** |
| Total Grand Total for C. P. | 7 | 3,434 | 2 | 825 | 8 | 2,446 | 4 | 680 | ī | 95 | 345 | abr |
| AND BERAR. | 34 | 17,471 | 28 | 18,210 | 33 | 15,225 | 34 | 11,566 | 9 | 1,290 | *,• | ù## |

| | | | By in | tentional from | g. | | | | | | |
|------------------|-------------------------|--------------|-------------------------|----------------|-------------------------|------------------|-------------------------|------------------|-------------------------|-----------------|-------------------------|
| In order new | r to obtain grass. | game of | e turn out to reduce | Malicio | ously fired . | Ta | tal. | Caques u | nkacwa. | Total (A) (| B) and (C). |
| Vo. of Lites, | Area burnt in acres. | No of tires, | Area burnt in acres. | Na of fires. | Area burnt In acres. | rio of fires. | Area burnt in acres. | Na. of fires. | Area burnt in acres. | No. of fires | Area burni in acres, |
| 74 | 15 | 16 | 17 | 18 | 29 | \$0 | 11 | 31 | 25 | 24 | 25 |
| | | | | | | | • | | | | |
| *** | 411 | *** | | *** | *** | r** | ste | 7 | 140 | 2 | 1. |
| ••• | ¢10 | 145 | 1,00 | *** | *** | 5 | 3,374 | 2 | 386 | 9 | 3,8 |
| 169 | | 410 | | 1 | 573 | 8 | 2,859 | 4 | 2,876 | 15 | 5,8 |
| 161 | , | 41.0 | vat | | | 4 | 5,97° | 9 | 8 ,788 | 19 | 27,7 |
| *** | | 411 | | | *** | 4 | 1,432 | 17 | 7,244 | 24 | 8,7 |
| 114 | /11 | ••• | | | 154 | | 609 | 2 | 149 | 2 | 1 |
| *11 | 111 | 644 | *** | 44 | *** | 2 | 131 | و | 759 | 10 | 1,1 |
| 155 | **1 | 1. . | | Pha . | | 8 | 245 | 7 | 493 | 17 | 8 |
| 111 | | 410 | | 1 | 573 | 31 | 14,016 | 44 | 20,835 | 98 | 48,5 |
| *** | | *** | | 1 | 3,500 | 4 | 4,200 | 4 | 1,260 | 13 | 6,30 |
| ` | | *** | | ., | 470 | 7 | 936 | | 194 | 10 | ı,ı |
| *** | | 111 | | 1,, | ••• | | +24 | 2 | 550 | 9 | 5,1. |
| *** | ,, | 414 | ,,,, | | *** | 2 | 386 | 6 | 3,952 | 8 | 4:3: |
| *** | | 400 | | 400 | áto | 1 | 106 | , | 95 | 2 | 9 |
| *** | | *** | | 1 | 715 | 8 | 933 | 3 | 5 73 | 16 | 1,7, |
| *** | | 900 | | 1 | 97 | τ4 | 9,168 | 10 | 10,028 | 34 | 31,0 |
| ** | 144 | Pér | | 3 | 4,712 | 36 | 15,729 | 26 | 16,458 | 92 | 49,9 |
| | | | | | | | | | | | |
| *** | *** | 411 | | 100 | e _{R0} | ••• | 5116 | *** | \ | 4 | 1,3, |
| 444 | #1 | p44 | 441 | 114 | | esb | 105 | 2 | 54 | 3 | |
| e 10 | ,,, | *** | | *** | 614 | *** | 1/4 | 1 | 180 | . 4 | 1,4 |
| p to | , | | | ••• | èqo | tha . | 440 | 1 | 10 | 2 | 1, |
| A14 | | >64 | tys | *** | *** | ates | 171 | an, | | , | |
| 441 | žas. | 146 | ŧu | 411 | 146 | *** | *** | 4 | 10,585 | 8 | 11,21 |
| 100 | gek | 461 | *** | 198 | Fig. | | 491 | 1 | 7 | 9 | 4,04 |
| 441 | oda | 404 | 7-1 | 991 | 9 10 | 13 | 3,-21 | 9 | 10,836 | 31 | 18,31 |
| qub | #FB | ets | 444 | 4 | 4,885 | 80 | 32,966 | 79 | 48,129 | 221 | 116,7 |

FORM No. 16.—Area closed and open to Grazing during 1912-13.

| A STATE OF THE PARTY OF THE PAR | | | | | Area in sq | unic miles. | | | |
|--|---|---------|------------------|-------------|----------------------------|------------------|-------------------|-----------------------------|--|
| r | Rusion. | | Closed to a | ll anımələ | Closed to brov gogts or | encep | Open to all | Total area. | Remarks. |
| | | | Whole year. | Part of you | Whole yeu | Part of year | Whole year | شقار الإجراز ميز ورشاستسميس | an women terfamasy tamap and brilly algebranches |
| | 1 | | 3 | 3 | 3 | 5 | 6 | 7 | B |
| 41 GO 4 | LRN CIRCLL | | | | | | | | |
| Mandla (North and ' Dhanwahi Range | South Mandla exclu | | | | | | 3,3114 | 2,570 | * Includes 80 square miles of 1. class forest. |
| Jubbulpore Narsingl kange) | hpur (including Dha | low api | 100 | - | 663 | | 5 | 768 | |
| Damch Singer Hoshangabad | | | 17 157 165 | ··· ··· | 48 | - | 745 548 770 | 792 753 | |
| Seoni Chhindwara | ;; | " | 112 101 | 46 | 671 14 | === | 526§ | 979 811 717 | nules of B I, cla forest, |
| | Fotal | ٠. | 971 | 50 | 1,; 6 | | 4,905 | 7 352 | toress, |
| | ern circle. A Class. | | | | • | | | | |
| Balaghat Bhandara Bilaspur | er 911 448 | ••• | 963 114 81 | eph | 713 300 584 | | :: | 976 521 665 | |
| North (handa South Clanda NogpurWaidha | ••• | | 37\$ 27# | : | 701 | ; | 3I 15* | 1,110 9°0 | |
| Raipur B | CLASS | | 12 1 25 3 | 361 | 486* 766 | | 110 | 1,350 | * To it distorests |
| Bhandara Nurth Chanda South Chanda | 915 647 81 | • ** | *** | | 9 | | 292 331 | 9 292 313 | only. |
| The same of the sa | Total A and B | | 7,510 | 1961 | 4,201 | | 781 | 6,95 | - |
| BER. | AR CIRCLE. | | | | | | | |] |
| Class "A" (Tin | BER AND FUEL RESERV | PER , | | | | | | | |
| Melghat Amraoti | V44 17 | - | 169 | 6 | 618 37 | | 874 | 1,161 | |
| Buldana Veotmal Akola | *** | | 15 49 96 | | 190 430 | | 1 | 230 535 | |
| rs koja | Total | ** | 361 | | 130 | *** | 374 | 2,155 | |
| CLASS "B" | (Grass Rushryss). | | | | | | | | |
| | | | | | | | | 6 | |
| Meighat Amraoti Buldona Yeotmal | *** | :: | :: | " 18 | ; ; | :: , | <u>.</u> | 18 | |
| Akola | *** | | 13 | 15 | 17 6 | *** | 111 | 70 21 | |
| | Total | " | 19 | 33 | | 9 | | 84 | |
| CLANGE C P (| Parture Grounds, | ļ | | | | | | 1 |] |
| Aelghat Imraoti | *** | | *** | ,, | *** | 416 | ,, 164 | 164 | |
| fielghat Luraoti Ruldona Ceotmal Akola | *** | ĺ | *** | *** | e44 407 | 9 2 9 4 41 | 181 546 | 164 181 646 | |
| o tivil (i) | Total | | | 141 | | *** | 120 | 126 | |
| Class "D" ! | VILLAGE FORESTS) | | | | | | | | |
| Zeotmal | • | | | : | | | | | |
| restadi | 414 | . | ¥., | *** | egs es | *** | 15 | 13 | |
| Total excluding Nims | Total r and Betul Divisions | 1 | 380 | ** 39 | 1,43/ | 14 | 24 1,5 15 | 24 5,386 | |
| - | rmanen: Reservas). | ľ | 310-0- | 34 | *170/ | 9 | -10 -2 | 31300 | |
| • | bsu | | 754 | 4 | ž 50g | | | ðrð, r | |
| limer Setul | Total | ł | 754 102 | * | 1,079 | | | 1,181 | |
| Class B-I (availae | rotal Le vor Aoxiculture, | | 956 | 91 | 2,488 | | **1 | 2,867 | |
| Tirnar Tetul | | | 121 | del | | m4 | | ₩ 8 | |
| (| ugiş | | ··· | * * | 300 210 | 4 # *** | 8 | 8 | |
| 1 17 | ial Nimar and Betut | 4 | .256 | 23 | 9,588 | 2 5.2 2 5.2 | 8 | 2,875 | • |
| the or Land | Total Berer Circle L Pasymong and He | ا". | 610 | 63 | 4,025 | 9 | 1,529 | 5,255 | |
| HERMIN WOLVE CHALLE | re terathicisi ynd thi | -44 t | 3, 37 | 473 | 9,744 | 9, | 7,269 | 20,572 | |

FORM No. 17.

j

| ļ | | 9 | tazing on pa | yment. | | | | | Numb | er of ani | mals. | | |
|--|------------------|----------------------|----------------------------|----------|-------------------|--------------------|-----------|-----------------------|---------------|-----------|-------------------|-----------------|-------------------------|
| | At | full rates incl | uding ording nomadic 12 | sy, comm | nercial an | | | | At pr | vileged r | ates. | | |
| Division. | | | | | | | | | Goats | | | Геев те | el ved. |
| | Buffaloes, | Cows and bullocks | Goats and Sheep. | Camels. | Other animals. | Fees received. | Buffaloes | Cows and bullocks. | and sheep. | Camels | Other animals. | Actual. | Value at full rates. |
| I | 2 | 3 | 4 | ś | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| | | | | | | : | | | | | | Rs. | Rs. |
| NORTHERN CIRCLE, C. P. Mandla (North and South ex- | | | BO 403 | | 3,157 | Rs. 82,036 | *5 | 95,256 | *18 | | *4 | 5,956 | 23,82 |
| cluding Dhanwahi Range), | | 1,33,011 | 10,401 | | | | Ĭ | ł I | | | | | ĺ |
| Jubbulpore-Narsinghpur (inclu- ding Dhanwahi Range). | 18,198 | 38,99\$ | 520 | | 1,363 | 41,334 | | 81,907 | " | " | | 8,470 | 49,604 |
| Damoh | 29,846 | 30,813 | 23,615 | | 442 | 47,683 | | 133,403 | | | 8*1 | 11,569 | \$3,9 |
| Saugor | 36,217 | 48,195 | 12,85\$ | . | 453 | 62,516 | | 94,837 | | | | 8,980 | 47,45 |
| Hosbangabad | 12,553 | 16,153 | 3,094 | | 121 | 19,831 | | 49,618 | | ** | 140 | 6,303 | 18,60 |
| Scon: " | 25,982 | 66,787 | a | - | 1,5 | 61,266 | 1,429 | 97,626 | * | 400 | | 9,510 | 43.7 |
| Chhindwara | ¥4,345 | 74,092 | 22,502 | | 306 | 91,745 | ., | \$7,379 | ., | ** | *** | 7,171 | 28,6 |
| Total " | . 173,722 | 407,975 | 72 996 | | 4,858 | 4,07,411 | 1,484 | \$ 99,326 | 81 | | 4 | £7,8 <u>£</u> 8 | 250,9 |
| SOUTHERN CIRCLE. | | | | | | | | | | | | | |
| Balaghat | 7,117 | 31,525 | ••• | | 168 | 28,705 | 859 | 42,618 | 410 | | 83 | 3,535 | 33, |
| Bhandara | 8,486 | 14,632 | | | 3 | 21,187 | 1,210 | 39,026 | | | | 3,181 | 20,7 |
| Balaspur . | 3,249 | 30,127 | 8: | | 178 | 8,875 | 9,757 | 10,008 | | *** | | 1,628 | 4,80 |
| North Chanda . | 19,107 | 56,702 | 43,744 | | a | 80,175 | 5,266 | 105,184 | 141 | *** | | 11,195 | 43,3 |
| South Chands . | 7.974 | \$6,473 | 41,967 | , | 62 | 43,455 | 5.576 | 51,248 | 149 | *** | | 6,394 | 14,1 |
| Nagpur-Wardha | 12,348 | 36,620 | 16,191 | | 93 | 55,924 | | 99,121 | 199 | | | 17,316 | 59,4 |
| Raipur | 6,502 | 56,394 | 37.1 | | 22 | 32,506 | 10,612 | 59,258 | | | | 8,209 | 26,3 |
| ch Con | | | | - | | | | | 1.0 | | \$ 3 | | - |
| Total A Class | 44,993 | | | 1 | } | | | 1 | | i | | 49,472 | 1 |
| (8 ,, ,, | 6,961 | 36,678 | \$6,861 | | 28 | 39,462 | 2,802 | \$4,340 | | | *** | 3,936 | 19,5 |
| Total Southern Circle | 51,943 | 273,871 | E02,195 | | 534 | ±,20,831 | \$6,180 | 405,463 | 410 | | 82 | \$3,408 | 9,02,1 |
| BERAR CIRCLE, C. P. | 1 | | | | | | | | | | , | Class ** | A". (Timi |
| Meighat | . x o 059 | 56,950 | 27,410 | | 1,592 | 17,450 | - | *** | | *** | m | 150 | } *** |
| Amraoti | 1,404 | 16,675 | 444 | | *** | 25,120 | - | ** | - | 497 | 300 | 4.4 | èen |
| Huldava | 1,599 | 57,128 | 91 | | , | 18,400 | - | 41) | - | | 816 | en en | *** |
| Yeotmai | 1,550 | 98,193 | 44, | | | 38,494 | #11 | 444 | w | det. | ,- | ** | hs |
| Akoia " | 136 | 5*,549 | | .,, | • | 19,959 | 831 | 449 | , | - | | *** | 4 |
| Total | 15,548 | 281 ₂ 505 | 17,501 | 241 | 1,600 | 1,17,423 | 500 | | | ,,, | *** | P14 | ••• |
| | - | 1 | , | 1 | | | 7 | , | | | |] | - |

| | | | · | er fimma | Num | | | | | ng free. | Grazii | _ | |
|------------|--|--------------------------------|------------------|-----------|----------------|--------------------|-----------|----------------------------------|------------------|----------|-----------------------|----------------------|--|
| hand to | | | und : Sett | theirs th | rnmeut, or | . Site of GC | Dutine pl | - | | tlement | gnt und er Set | By n | |
| full rat | I otal value of fees at full vatica | Value of s at full rates | Oti r urun ki | C macl . | Sout and shell | Concand Fulleet | ปกติเน | Value of 1824 of fuil 1486 | Other an mals | C m l | Cont 11 he p | Cov s and tallock | uff1l0es |
| :8 | ^7 | .0 | | 21 | | 20 | | 20 | *, | 1 | | 75 | 15 |
| | r. | Rs | | | | | | Fr. | | | | | |
| 196, | 921 | 931 | ,, | | | 4,102 | 24 | *** | ,, | | | | *** |
| 82, | 500 | ∮ 00 | | | | 897 | ,, | 198 | *** | | | 614 | ,, |
| 101,69 | 22 | 22 | ,,,, | . | Ì | \$ 0 | ., | 141 | | | | | |
| 104 | | •• | *** | | | | | | | | *** | 439 | |
| 41, | 2,740 | 2,799 | P11 | | 20 | 7,156 | 165 | | | | | | |
| 105,24 | 199 | 199 | | pt.1 | p=1 | 436 | 81 | | | | | ,,, | |
| 125, | , é1 | | ., | • | ••• | | | | | | | | |
| 652 | 4.43 | 1,432 | 616 | 10 | 20 | 13,017 | \$02 | | | | | | |
| | - | | | | | | | | | | | | |
| 63 | | *** | *** | | | po 1 | | | *** | | | | ••• |
| \$. | , | •• | ** | • • | *1 | | | | | | | | *** |
| 33 | 272 | 27 2 | •• | 74 | 71 | 1 0 15 | 37 | | | , , | | | |
| 94 | 5 646 | 646 | | • | 87 | 1 316 | 183 | | ••• | | | . | *** |
| 57 | 230 | 210 | | *** | 203 | 1,596 | 120 | | | _ | ,,,, | | |
| 1,15 | 180 | 180 | 11 | *** | 29 | 212 | 34 | | ••• | • | | | |
| 50 | 1,190 | T,190 | | 111 | 2** | 3,183 | 418 | | | " | *** | | •• |
| 3,7 | 8 2,496 | 3,49 | | 1/2 | 333 | 7,35 | 752 | | . 1 | ., | | | , , , , , , , , , , , , , , , , , , , |
| | 41 | 401 | | 7** | *** | | - | | *** | | " | | *** |
| 4,2 | 2,40 | 2,49 | " | 10 | 332 | 7,36 | 77: | *44 | 4+4 | | | ••• | |
| | | | | | | | _ | ~ | | | | Reserves). | and Forl |
| 1 | 1 | 2,51 | |] | | 11,35 | | 208 | ATÉ | *** | | | |
| 1 | 30 1 | | Ì | | | 1 | , | | | ,,, | *** | ,,,, | *** |
| 5 | 3 | | | ** | | | 10 | 144 | | *** | • | | |
| 7 | - | | | *** | | 1,2 | 10 m | 1 | | ,,, | 25 | j | g44 844 |
| - | <u>. </u> | | | | | | | | | | | | 441 *********************************** |
| . , | ,18å 3 ₅ | 3, | | | | 15,6 | 37 3 | | | | 165 | | 142 |

| الأقطالية والمستوالية المستوالية والمتراطية والمتراطة والمترطة والمترطة والمتراطة والمتراطة والمتراطة والمتراطة والمتراطة والم | 1 | | | · · · · · · · · · · · · · · · · · · · | | Grazi | ing on i | payment. | Number (| f anım | als. | | | | | | |
|--|---------|--|--------------------------|---------------------------------------|---------------|------------|------------|--------------|-------------|----------------------|------------------|----------------------|----------|------------------------|------------|--------------|------------------------|
| | - | | | At full rate | s. | | | | | | | ≜t privi | leged ra | tes. | | | |
| Division. | - | | | | | | | | | | | | | ٠ | | Fees recei | ed. |
| | Br | nffaloes, | Cows and outlocks. | Gorts and sheep. | Camels | Other | | ces nv.d. | Buffalocs. | Cow and bulled | d | oats and heep, | Camels. | Other all- mals. | ٨ | ctual. f | Value at ull rates, |
| المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد | 1 | , | 3 | 4 | 5 | 6 | | 7 | 8 | | 9 | £a . | 11 | 12 | | 13 | 14 |
| BERAR CIRCIE,-(Concl. | 1., | | | | | | | Rı. | | | | | | | | Rs. | Re. |
| Meighat | | | | | | | | | 149 | | . | | | | | | in |
| Amraoti | | 2,032 | 2,124 | | | | . | \$79 | b 4 | | ., | | ••• | | | | *** |
| Buldana | | 16 | 205 | ••• | | | | 134 | | | 200 | ••• | i | | | 13 | 75 |
| Yeotmal | ١ | 290 | 9,189 | | | | | 3,845 | | | | *** | | | | *** | 414 |
| Akola | - | 140 | 3,0 ე 0 | | | " | . | 1,415 | | | | • | | - | | | 40 |
| Total | | 1,338 | 14,548 | | | | | 5,973 | | | 200 | · | | | | 13 | 75 |
| | ľ | | | | | | | | | | | | | | | | CLASS 4 G P |
| Meighat | - | • | , | | | . . | | 41 | | | ., | *** | | | - | | *** |
| Variati | - | 30,170 | 123,131 | 1 107,7 |)z | . ' | 744 | \$7,784 | | | | *41 | | . | - | | |
| Bukiana | | 12,711 | 94,67 | 151.3 | 29 | 5 | 510 | 37,916 | | | | *** | | | . | *** | *** |
| Veotmal | | 75,758 | 194,994 | 4 161,8 | 96 | 9 0 | 670 | 100,273 | | | *** | J P4 | " | . . | . | | *** |
| Akola | - | 20,887 | 78,01 | 7 \$3,2 | 97 | 1 | 456 | 27,991 | 3 | | 444 | | | | | ••• | *** |
| Tota | | 149,536 | 590,81 | 5 474,2 | 53 | g6 x | ,780 | 223,97 | 1 | | 111 | | <u> </u> | | | 141 | ж. |
| Total excluding Num. Betul, | er and | 166,432 | 866,95 | 8 491.7 | 154 | 96 3 | ,380 | 347,36 | 7 | | 200 | |] : | • | | 13 | 75 |
| | | | | _ | | | | | | | | | | | | | Chats * A" |
| (Ordinary | ,, | 22,518 | 33,8 | 22 | 440 | | 17 | 27,54 | ю | | 85,906 | | , | | | 5,400 | 39,339 |
| Nimar Nomadic | | 2,570 | | 1 | | | 11 | 4,41 | 1 | | 141 | | 1 | | | 160 |) |
| Commercia | ١, | 15,09: | | 1 | 5 | | 64 | 38,6 | Į. | | *** | | | . | | *** | |
| <i>(</i> Ordinary | | 3,90 | | | | | 138 | 9,2 | | | \$1,047 | | | | | 3,190 | 19,143 |
| Bethl Nomadic | ,, | | | | - | _ | 84 | 41,6 | | | 161 | | 1 | | | 141 | |
| Commercia | ١. | | ••• | | | | | *** | | | in | 40 | . . | | | 445 | - |
| (Ordinary | •• | 26,92 | 2 56,9 | 20 | 440 | | 155 | 36,7 | | | 136,955 | | _ | | _ | 8,59 | \$1,481 |
| Total Nomadic | | | | | 129 | | 95 | 46,0 | 1 | | *** | | ı | | | ,44 | *** |
| Commerci | | l | | | 5 | | 64 | 38,0 | 1 | | 101 | | | | | 944 | |
| | | | | | | | | - | | _ | | | _ | - | | | Page 201 |
| Nimat | | | | | | | | | | | | | | | | | Casas B-l |
| Cordinary | | | *** | • | 461 | ** | ** | ži. | 1 | ' | U * | | | *4* | 167 | 145 | |
| Clamary | 41 | 1 | | | 401 1219 | " | *** | | §8 . 21¢ | | *** | 1 | | ** | 744 | 201 | "" |
| | •1 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | *** | | | | *** | | 21¢ ., | | *** | | " | 104 | *** | 146 | ··· |
| Total Nimer and Be | - | 58 4 | 34 134,0 | | ,68a 1,254 | 3 | ; 374 | ~~~~ | 374 | | *** | _ | | | *** | ,,, D en | o 51,482 |
| Grand Total Berar Ci | ıçı'n . | 204,88 | | 666 494 | 8001 | | 3,694 | 121, 459, | | | 130,95 137,25 | | |)»· | 744 144 | 8,59 8,50 | |
| Total Central Provin Berar. | ces an | 1B 4,50,5 | i 2,734, | 713 66 | 1,799 | 9B | 9,096 | 1,097, | 358 27 | ,614 | t,149,94 | 3 , | 128 | | 87 | 1,19.8 | i2 5,04,693 |

| 1 | | | | | Gr | asing free. | Number of a | nimals. | *************************************** | | | | | |
|------------|--|--------------------------|---|-------------|---|---------------------------------------|-------------|--------------------------|---|--------------|---|---------------------------------------|------------------------------------|-------------------------------------|
| | | В | y right under | Settlement. | , | | | During pl | easure of Gov than under S | ernment or o | therwise | | | ` |
| | Buffaloes. | Cows and bullocks. | Goats and sheep. | Camels. | Other animals. | Value of fees at full rates. | Buffaloes, | Cows and bullocks, | Goats and sheep. | Camels. | Other animals. | Value of fees at full rates, | Total value of fees at full rates. | Grand Total of value at full rates. |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | Grass Rese | R VP4. | | | | Rs, | | | | | | Rs. | Rø, | |
| | ··· [| | | | | pak | | | F14 | | | 241 | | • |
| | | | , | | | *** | .,, | 111 | | | *** | 411 | | 579 |
| | aet | • • • • | | | | • • | | 2,014 | ., | . | 443 | 75\$ | ~55 | qóş |
| | ant . | *11 | | 4,0 |) PA | 44 | | 149 | | | | ,,,, | , ,,, | 3,845 |
| | *** | 440 | 1 01 | .,, | *** | 411 | ., | | 134 | | • | | | 7,415 |
| | | | | | | | | | | | ٠. | | | - 7,1-0 |
| | *** | | | 411 | | *** | | 2,014 | | ** | | 755 | 755 | 0,805 |
| | Pasture Gr | פלמאטים . | | | | | | | | | 1 | | | |
| | *** | ••• | | 140 | *** | *** | <i>.</i> | *** | | • | | | | |
| | *** | | *** | AUR | | 144 | | 18,669 | 101 | | *** | 4:533 | 4,533 | 62,317 |
| | 849 | ,,, | 164 | , | *** | | | 32,058 | 37 | | | 6,184 | 6,184 | 44,100 |
| | *** | | 1 409 | =11 | *** | *** | , | 123,991 | | ,11 | | 23,249 | 23,249 | |
| | m | | 254 | | | | [| [| | | *** | [| 1 | 30,458 |
| | | | | **1 | th: | *** | , | t3,118 | *** | *** | | 2,460 | 2,460 | 343430 |
| | 111 | | *** | *** | | | 1 | 188,736 | 37 | ,,, | | 26,425 | 35,426 | 250,397 |
| | *************************************** | 365 | 147 | *** | | 137 | 121 | 206,352 | 40 | | | 40,367 | 10,504 | 187,946 |
| | Permanent | Forser Rise | RVBQ. | | | | | | | | | | <u> </u> | |
| | *11 | | · " | .,, | *** | , | 28 | 4,883 | 19 | | 38 | 1,731 | 1,731 | Gi,6x0 |
| | m | - | *** |) bad | | | | | *** | | *** | 184 | *** | 4,468 |
| | ěs, | 144 | | | | *** | ,,,, | | ** | | #* | | | 38,605 |
| | Phi | | ,,, | | *** | | 58 | 192 | 8 | | | 92 | 92 | 18,453 |
| | 144 | 700 | tes | | ,,, | | *** | | м. | 47. | m | | . | 42,616 |
| K | 711 | | | a** | | | | | au | ••• | 446 | | | |
| | 491 | "" | | | | | 66 | 5,075 | 57 | *** | 38 | 1,823 | 1,823 | 90,053 |
| | 44 | | | and a | | | | | | | | | | 46,094 |
| | We | 411 | | 401 | a, | *** | | | | p. | .,, | ,, | | <u>\$</u> 8,€¢3 |
| | | | | - | | | | | , | | | | | |
| • | · AVAILABLE I | or Cultivati | t ox. | 1 | | | , | | | | | | | 1 |
| | *** | *** | | | | tn | *** | 164 | | | | | *** | , |
| | eșt | 471 | *** | | | | , | | , n | 441 | | *** | 184 | Ť\$ |
| | 410 | -11 | | 44 | | | *** | | | | | | ,,, | \$16 |
| |) 18 T | | 100 | | *** | ,, | •** | | 398 | ETA | *************************************** | 461 | | 274 |
| | , pied | 355 | #P1 | | 300 | 137 | 65 187 | | §7 | | 35 | - | | |
| | 276 | 365 | | | | 137 | | 231,815 | 499 | -[| 40 | | | |
| » . | ************************************* | | } ************************************ | | | <u> L</u> | 1 | 1 | 1 | <u> </u> | | <u> </u> | | 1 |

| | | | | Area i | n acres. | | Expen durit yea | ig the | ture | xpendi- from cement, | Re- | Total revenue from date | |
|---|--|--|-------------------------|------------------------|--|------------------------------------|-----------------------|--------------|----------------|----------------------------|---------------------------------------|------------------------------------|--|
| Dlyision. | | Kınd of plantation. | On 15t Jul; 1912. | Added during the year. | Ey- cluded during the ye ir. | Area on 31 th Jun e 1913. | Crea- tion. | Up- keep. | Crea- tion. | Up- kecp. | venue during the year, | of creation of planta- tion, | Remarks. |
| * | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | -" | 13 | 73 |
| Nagara ya Minispenya (1944) a Marin wa wake e | | NORTHERN CIRCLE. | | | | | Rs. | Rs. | R6. | Rs. | Rs, | Rs. | |
| Saugor | ••• | REGULAR PLANTATION. Bamboo plant alou maintenance and watering Nursery and digging pits for plantation. | 238 | 178 | 100° 44† | 273 | 5 52 | *** | 1,955 | *** | tu. | 643 | • Gwing to recalculatio of area. + Plantation unsuccess ful. |
| Seoni | \ \ \ \ | Teak Teal: and Bamboos Sandal Plantation | | | *** | 361 1 | (a) ‡ | | (b) 227 | (c) 105 | , | 441 | (a) Spent on tree planting, (b) Expenditure of Kurai garden upkee Rs. 61. |
| | • | Total | | 178 | 144 | 637 | 555 | | 2,182 | 105 | | | (c) Expenditure pre vious to 1909-08 is no known. |
| hia ndla | | CULTURAL OPERATION. | 860 | 309 | 860 | 300 | Noe | xpenditu | re. | *** | 101 | 108 | |
| Damoh | •• | *10 *1 | 12 | | ••• | 13 | , | 35 | 10 | 14 | | 411 | Spent on main tenance. |
| • | (| Sowing Anjan seeds, 1,300 pits weeding and fencing in Mohli, | 100 | 30 | 40‡ | 90 | 15 | | 81 | | | 164 | ‡ Unsuccessful. |
| Saugor | { | Watering and fencing bamboo seculings in Mandla Jallandha Felling Series. | , | • | | 1 | 13 | | 13 | ••• | | ,,, | -) - |
| Seoni | *** | 111961 , | 6 | • | 6 | | " | *** | 37 | 6 | | , 114 | , |
| Chhindwara | *** | - | 5 | | 5 | | | | 2\$ | | | | , |
| . ; | | Total NORTHERN CIRCLE. | 1,587 | 539\$ 517\$ | t,ess | 1,048 | 28 " 583 | 3 | 2,346 | 125 | *** | ,, | 5 spe " |
| | | SOUTHERN CIRCLE. RECULAR PLANTATIONS. | | | | | ! | , | | | | , | |
| North Chanda | | Sandal wood plantations | 150 | | , | 156 | | 24 | 100 | 27 | 41 | 44. | and the second s |
| | 1, | Total Regular plantation Cultural Operations. | 150 | | | 156 | | 34 | | 27 | | ###. | |
| Bhandara Bilaspur | *** | Sowings of Teak and Dhaman Sowings of Miscellaneous species | 4 | ,, | 4 | , , | • | *** | . 3 | 999 | | | |
| North Chands | * The state of the | Do- | *** | 8 | in m | 8 | | 55 | 67 ≇8 | . 86z | ### / ### / | 2000 | |
| Nagon Wardha | | Bowings of task etc. Do. do. | 105 | 30 | 101 | 3 | 1 時間 | 107 | 266 2,175 | 196 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | | Estal Cultural Operations Total Southern Circle | - 6. - 19. | | 100 | 101 | 107 | 175 | 438 | 144 | | | |

FORM NO. 18.—[PRESCRIBED].—Artificial reproduction during the Forest year 1912-13.—(Concld.)

| | | | | Area i | acres. | | Expen during yea | the ! | Total ex ture f commenc | rom | Re- | Totai revenue | |
|---|---|--|-------------------------|------------------------|---|----------------------------------|------------------------|--------------|-------------------------------|--------------|-------------|---|--|
| Division- | | Kind of plantation. | On 19t July 1912, | Added during the year. | Ex- cluded during tre year. | Area on 30th June 1913. | Crea- tion. | Up- keep. | Cren- tion, | Up- keep. | venue ! | from date of creation of planta- tion. | Remarks. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | | | | | | | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| | | | | | | | | | | | | | |
| | | BERAR. | | | | | | | | | | | |
| | | REGULAR- | | | 1 | | | | | | | | |
| kola | S | Bamboo plantation at Yeota | 1 } 25 | -,, | | 25 | | 28 | 399 | I,CS9 | 601 | 5:297 | 1 |
| TEOM | " { | Do. do. at Karanja | 2 | • | ' | 3 | | 85 | 97 | 554 | | | ' |
| | | Total regular plantations | 27 | *** | | 27 | | 113 | 496 | 1,613 | 601 | 5,297 | |
| | | 5 | | | | | | | | | | | |
| | | _ | • | | | | | | | | | | |
| | , | Taunoya, | | | | | | | | | | | |
| mraoti | { | Babul (sowings) | 1,476 | 259 | stor | 1,634 | | , | 1,019 | 469 | *** | *** | * Transferred to Cul- tural operations. |
| | (| Miscellaneous species Babul (sowings) | 1,56B | 140 | *** | 1,708 | ···. | 23 | 2,923 1,742 | 304 895 | | ••• | |
| luldana | | Anjan (sowings) | 1,374 10 | 133 | *** | 1,507 | | 710 | 13 | 78 78 | | ••• | |
| | l | Teak and mixed species | Ι. | | | 54 | 75 | 40 | 33 | 40 | | 27.0 | |
| 'eotmal | ••• | Mixed species | 100 | | †reo | | | | | *** | ••• | *** | † Abandoned since last year. |
| kola | *** | Babul | 893 | 139 | 54 | 978 | 222 | | 1,412 | 44 | <i>"</i> " | \$54 | |
| ' ,• | 1 | Total Taungya Plantations | 5,485 | 67 r | 255 | 5,901 | 240 | 63 | 8,141 | 1,770 | : | 554 | |
| , | | | 1 1403 | | | ,,,, | | | | | | | |
| | | | | ļ | | | | | | | | | <u> </u> |
| u . | | CULTURAL OPERATIONS. | l | | | | } | | | | | | . ** |
| lèighat | ••• | Miscellaneous | | | | JM. | | 127 | | 473 | | *** | |
| mzaoti | { | Babul Experimental sowings | | \$101 | | 353 | 1 | 104 | 745 | 586 | | 1 | - |
| , ' | r | Teak sowings | 15 45 | 300 | 150 | 195 | 39 8£ | 33 60 | 386 253 | 161 318 | | | |
| | Ì | Babul and Nim Seedlings |] " | 134 | 134 | 3 | 4 | 2 | 21 | 11 | | 411 | 1 |
| • | | Anjan sowings | 4 | 4 | 8 | | 46 | а | 111 | 24 | | | |
| nidana | | Bamboo (Dandroenlamps strict us) | 40 | 15 | | g: | · 14 | 40 | 230 | 54 | | . | |
| y** ,, | ` | Bamboo planting | . gr | hú | | 31 | 723 | 600 | 652 | 1,471 | in | | |
| | | Sandal seed sowings | . 20 | 11 | | 25 | 1 | 15 | 1 | 24 | | | |
| | | Catalpa sowing in the compound of Divisional Forest Officer's Government Bungalow. | 9 | | - | | · · · . | 4** | . 8 | , " | - | *:. | |
| cotmal | | Experimental sowings of Bamboos. | 120 | 4.5 | 117 | 48 | 530 | 335 | 952 | 780 | | , | |
| STRING TOWN I | | Various bamboo plantations | 16 | } ` | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | K6 | 1 | 1 - | | 2,510 | | | |
| kola | } | Sandal sowings | | | 1,5 | | . 92 | , ,,,,,, | 155 | | 1 | | |
| resident | ; { | Lac planting | 1 | | ,,,, | | 6 | 1 | 1 .6 | - | , *** | 1 1 | The same with |
| iniar : | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Gardon of Iruit trees and vegetab containing also teak and bamboos | | 111 | 100 | 1 | " | 95 | , 111 | 420 | " | 179 | A STATE OF THE STA |
| etal . | ." ." •? | Miscellaneous | n | 1,51 | 1. | | 6 | ٠, ١ | 52 | 25 | | S and | |
| | , | Total Cultural Operations | | | | 1 | | | 1 | 6,857 | 1 | -175 | |
| | | Anna Anima Aberations | 537 | 613 | 400 | 745 | 997 | 1,740 | 5,134 | . 1 . V. 037 | | | 中的自己學 |
| | | Total Berar Circle | 6,040 | 1,28 | 5 55 | 6,573 | x,237 | 1,916 | 43,771 | 10,230 | 5 01 | 6,030 | |
| الله الله الله الله الله الله الله الله | آرا، بهرا ایالاندا | The factor with the second | 1 | - | 1 (1) 1 (1) 1 (1) | 4 4 | | 12 19 19 | | - | - | 1 11 | |
| | 4.0 | GRAND TOTAL CHATHAL PROVINCE | 8 7.935 | 1,847 | | 7,078 | 11927 | | | 11 334 | бо | | 喇斗美 法军等路 |
| | | A STATE OF THE PARTY OF THE PAR | | 1 10(14) | 11.00 | 1 (67) | 9.4 | 4 H A | 课 3 | 16 30 1 | 4. | 4 m | Company of the second |

| | | | Timber in t | he toug | h; logs. | | | Timber in | the rough | ; poles. | | | Sawn | or squ | are timber | |
|-------------------------------|--|------------------|---|------------------------|------------------|--|------------------|------------------|-------------------|--------------------|---------------|-----------------------|---|------------------------|--------------------|--|
| Đ | ivision. | Gutern- ment. | Pur- chasers. | Free Gran- tees. | Right- hoders | Total, | Govern- ment. | Pur- chasers. | Frec Grantees. | Pight- holders. | Total. | Gov- ern- ment- | Pur- chasers. | Free Gran- tees. | Right- holders, | Total. |
| | T | 2 | 3 | 4 | 5 | 6 | 7 | S | 9 | 10 | 11 | 13 | 13 | 14 | 15 | 16 |
| | the second oil spirit of second-second second-secon | C. ft. | C. ft. | c. n. | C. it. | C. ft. | C, ft, | C. st. | C. H. | C. ft. | C, ft. | C. ft. | C, It. | C, ft, | C. ft. | C. ft. |
| North | ERN CIRCLE | | | | | | | | | | | | | | | |
| | erosd Forestr. and South excluding | 1,458 | 27,329 | 16 | | 28,803 | 8, (02 | 1,148,814 | 9,261 | 31 1 | 1,166,477 | 63 | \$1,954 | | | \$4,017 |
| Jubbulpore-Nars Dhanwabi F | singhpur (including | | 4,878 | | | 4,878 | 24,300 | 459,804 | 1,710 | ,,, | 485,814 | | | , | | *** |
| Damoh | | | | ļ | . | ••• | 223,461 | 15,360 | 469 | | 239,290 | 1,539 | | , | 974 | 1,539 |
| Saugor | H. 11 | 59 | | | | \$9 | 20,003 | 215,614 | 2,440 | | 238,057 | | | | | 441 |
| Hosbangabad | | | T ₃ 154 | | | 1,154 | 17,643 | 68,595 | 3, 801 | | 90,030 | | 101,174 | 4. | | 11,174 |
| Sconi | 184 ** | 2,721 | 41,866 | 42 | | 4,4629 | 3,086 | 25,554 | 974 | | 30,514 | | 1,720 | ••• | | 1,150 |
| Chhindwara | f30 40 | . 123 | 157 | "" | | 380 | 25,378 | 138,621 | 5,450 | , | 169,449 | | | - | " " | *** |
| | Total | 4,361 | 75,384 | 58 | | 79,803 | 323,173 | 2,074,362 | 24,105 | | 24,19,640 | 1,602 | 156,248 | | | 157,850 |
| | | | | - | | | | | • | | | - | | | | |
| | ERN CIRCLE, | | | | | | | , | | | | | | | | |
| Balaghat | 100 to 40 | . 5, 389 | 5,055 | | | 9,044 | 9,291 | 362,532 | 13,425 | | 385,248 | 366 | 62,152 | | | 61,518 |
| Bhaodata | *** | ,,, | | İ | | 101,331 | 11,285 | 1,433,142 | 3,216 | | 1,447,643 | | *** | | | 417 |
| Bilaspur | | 68,725 | 259,935 | | , | 328,660 | 115,628 | G86,587 | 32,02 | | 806,417 | 387 | 10% | | | 387 |
| North Chanda | in a | 6,220 | 36,119 | 420 | | 42,759 | 18,919 | 529,055 | 18,792 | 148 | . 567,659 | | | | | m _i si |
| South Chanda | *** | 16,225 | 50,120 | | | 66,345 | 11,876 | 219.750 | 23,110 | | 254,742 | 2,778 | | | | 2,728 |
| Nagpur-Wardha | | 3,180 | | | | 3,180 | 10,710 | 373,417 | 86 | | 384,413 | - | | | - | ** |
| Raipur | | Ī | 1 | | *** | 117,821 | 46,771 | 790,588 | 9,596 | | 846,955 | 98 | 7 | " | - | 105 |
| Total | A Class | 105,877 | 542,581 | - | *** | 648,972 | 213,697 | 4, 132,988 | 1 | | 4,418,118 | ļ | 62,150 | | *** | 65,766 218 |
| | 8 Class | 5,413 | 14:739 | -) | | 20,170 | 11,776 | 262,983 | *** | | 274,759 | 22 | | - | jua j | 220 |
| | Grand Total | 111,308 | 557,320 | \$14 | | 569,141 | 225,473 | 4,395,971 | 77,493 | | 4,692,877 | 3,629 | ميدا والم | | | 04,788 |
| | | | | . , | | | | | 1 | | 13 | | | | | |
| | R CIRCLE. | | 5, | , , | | | | , | | | | | 1 | | 1 2 5 | |
| Molghat | TET VAI | \$07 | 144 | | l In | \$07 | 110,594 | 77.355 | | 65,515 | 259,474 | | 120,424 | 4 | | ************************************** |
| Ameri | | 517 | 50'a'Q | 160 | , m. 3 | 20,993 | | 41 | ,,,, | 1 | -2319/4 in | ." | *** | 44 | | |
| Buldina | | a) | | •. | | in the contract of the contrac | Sjore | #7,358 | 184 | 1944 | 24,547 | 410 | | | | |
| Trotmal | | | 1. A. A. A. A. A. A. A. A. A. A. A. A. A. | | | 404 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 18,418 | .46,571 | 2,870 | | 47,850 | | / () () () () () () () () () (| 拟 | in | 1 |
| Akda | | | | | | o ne () tone | 7,300 | 63.538 | \$ 55 | | 71,401 | | | | | 120,414 |
| | | | | | | THE PLANT | | 1991 S | | 3. 1 10. 10. | | 10 m | | | | |
| | | 1/124 | 20,116 | 166 | | Middle | 144,318 | 189,817 | a Qua | 65,545 | 403,282 | | 120, 14 | | | |

Timber and Fuel during the year 1912-13 and Agency of Exploitation.

| • | #************************************* | M1s | scellaneo | 79 . | | | To | otal timber. | | | | | Fuel. | | | | |
|---------------------------|--|---|------------------------|--------------------|----------|------------------|------------------|-------------------|--------------------|--------------------|--|----------------------|-------------------|--------------------|--|------------------------|-----------|
| | Govern- ment. | Par- chasers. | Free Gran- tees. | Right- hulders. | Total. | Govern- ment. | Pur- chasers. | Free Grantees. | Right- holders. | Total, | Govern- ment. | Pur- chaseis. | Free Grantees. | Right- holders. | Totul. | Total outturn. | Remarks. |
| | 17 | 18 | tg | 20 | 21 | 22 | 23 | 24 | 25 | 26. | 27 | 28 | 29 | 30 | 31 | 30 | 13 |
| | C, R. | C. ft. | C, ft, | C. ft. | C, 1t. | C. st. | C. ft. | C. ft. | C. ft. | C. is. | C, ń. | C ft, | C. ft. | C. st. | C. it. | C. ft. | |
| | 27,111 | 481 | | | 27,592 | 3 7.034 | 1,230,578 | 9,277 | | 1,276,83) | 150 | 6 73 1Fg | :87,484 | 194 | 767,773 | 2,037,h62 | |
| | | | | | | 21,300 | 451,682 | 1,710 | | 490,693 | 6,810 | 1,423,100 | 157,339 | ÷+3 | 1,586,258 | 2,076,950 | |
| | | - | ••• | | | 925,000 | 15,360 | 469 | | 340,819 | | 222,920 | *** | | 665,461 | 907,290 | • |
| | 2,378 | | ••• | | 2,378 | 22,440 | 205,800 | 3,801 | ••• | 240,4)4 | 16,737 | 959,763 | 3,260 | " | y79,369 | 1,219,853 | |
| | 300 | 34,877 | | | 34,877 | 1,7643 7,007 | 70,741 | 1,016 | | 75,764 | 20,753 26,085 | 242,0-9 72 -, 165 | 9,240 | *** | 274,001 765,172 | 501,535 843,936 | ` |
| | `4\$6 | | | | 456 | 23,957 | 1;8,773 | 5,450 | , | 170, 185 | 23,262 | 399,531 | 3,448 | *** | 426,231 | 946,416 | 1 |
| × | 30,245 | 37,559 | | | 67,804 | 389,381 | 2,241,553 | 24,163 | | 2.725,0)7 | 5: 8,021 | 4,642,931 | ->q_493 | LIF | 5,458,345 | 8,183,443 | |
| | | | | | | | | | - | | No. also and the second | | | | | | |
| | 1 | | | | | | ٠, | | | | | | | | | | |
| | 4 | | | | | 13,046 | 430,339 | 13,425 | | 456,810 | 34,168 | | 133,320 | *** | | 1,857,583 | |
| | ,, | 1,354 | | *** ' | 1,364 | 12,238 | 947,886 | 3,216 | | 1,548,976 | 21,150 | \$,363,721 | 5,600 51,612 | .,, | 5,390,471 | 6,939,447 1,469,537 | |
| | 300 | 1,064 | 181 | | 1,545 | 25,432 | 567,138 | 19,393 | | 611,963 | 018,01 | 2,142,829 | 13,203 | | ļ | 2,788,835 | |
| | 'ioi | 15,323 | | | 15,424 | 30,080 | 285,173 | 23,216 | | 339,259 | 3,150 | 2,064,847 | 107,400 | 4** | 2,17\$,397 | 2,514,686 | |
| | | * *** | | · · | So | 13,970 | 373:417 | 85 | | 387,473 | 222,341 | 3,108,766 | 840 | | 3,421,94 | 9,809,420 | ,,,, |
| , | *** | - Hot 1 | | , par , | | 59.435 | 895,706 | 9,690 | | 954,861 | 117,476 | 1,100,835 | 233,950. | *** | .5,441,013 | 2,405,894 | ., , |
| \$V, | 356 | 3,243 | 181, | "" | 3,780 | 3#3,537 | 4,740,971 | 72,t28 | . *** | £,13 0,6 36 | 411,152 | 13,494,083 | 544:927 | .,, | İ | 19,586,798 | |
| , , ا , | 115. | 14,508 | - 410 | ; | 14,633 | . 17,354 | 192,230 | | . ". | 309,£84 | 140. | 1,888,579 | **. | , ,,,, | 1,889,019 | 1,1 gH,603 | |
| • | 48: | 17.451 | igi | | 18,413 | 340,891 | 5,033,201 | 72,128 | | 5,446,220 | 411,592 | 15, 382,665 | 544,927 | · · · | 1,63,39.18 | 21,785,401 | |
| | | | | | 41, | | , , | | | | | | | | | | Called Br |
| ا عمر) روي ان | | الله الله الله الله الله الله الله الله | | | ,ak ' « | | | | | , 13 | | 3.75 | | | | | |
| | | | | | *** | 117,101 | 197,779 | 360 | 65,525 | 3B0,405 | 3,456 | .225,3cc | 1. | 594,300 | 752,9\$ 320,63 | | |
| A | - | 9 37 | 1749 | 4,046 | s 17,195 | 617 | 20,316 | 160 933 | | 20,903 31,742 | 11,38 | 14 | | 127,213 | 1 1996 | 1. 1. 6. | TOPE COST |
| ر برا ا ا ا ا | | | | | | 18,418 | \$ 26.571 | 2,870 | 1 4 | 47,859. | L. Os | 232,85 | | 12,800 | 1 / 1 | . 12 | 10.000 |
| PSS TANK | | 193 | | | 198 | 7, 5 00 | 63,661 | 张宁(24) | 10 mg/h | 11.645 | 60,0.8 | 592,845 | i,600 | Ser Is | 659,45 | 750,970 | |
| 東京 湯湯 | 4 | 1995 | 4 | 4,040 | erors. | 196408 | 12.952 | | Co.szí | 187524 | 192,731 | 7,586 | \$850 | | 2 001 107 | 5 1,942,54 | |
| | | A AAR | | | | | TOTAL | | | | | The second con- | | | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The spirit | |

| | | | T | imbei in ti | he r m | h• lo ţs. | | | 1 imber in | the rough, | poles. | | | | r squa | re timber. | |
|------------------------|---------------------|-------------------------------------|------------------|-------------|-------------------------|------------------|----------------|------------------|------------|------------------|--------|-------------|-----------------------|--------------|-----------------------|------------|---------|
| i | Di 71810N | | Govern- m nt. | Pur- | Free Gr. n- t c , | Right h luci- | Fot d | Govern- ment, | Pur | Free Great es | Right- | Total. | Goy- ern- ment. | | Free Gan- tees. | Rizh- | Total |
| | I | | 9 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| BER | AR CIRCLI | 1 | C fi. | C st, | C ft. | C It | C ft | C fi | t. ft. | (ft. | C. ft. | C. ft | C. ft. | C. ft | C ft, | C ft. | C, ft. |
| II.⊷Cl us " | B" (Gras, R | eserves). | | | | | | | | | | | | | | | |
| Melohat | *** | • | | | | | | | 291 | | .,. | 291 | . ' | | | | *** |
| Amraoti | | | | ı | | | , | | | | | | | ••• | | | |
| Buldana | H | , | | | | - | | | 168 | | ٠ | 168 | | , | | | *** |
| Yeotmal | • | | | | .,. | | | | 2,562 | 14 | | 2,562 | | | | | 74 |
| Akola | | • | | | | | | | | | | *** | | *** | .,, | *** | |
| | | lotal | *** | x | | - | I | | 3,021 | | | 5,021 | | ••• | | | AP1 |
| 111.—Class ' | "C" (Pastura | eround). | | | | | ļ. | | | | | | | | | | |
| | | a | | | | | | | | | | | | | Ì | | |
| Meighat Amraoti | *** | • | " | *** | | " | '" | " | *** | ••• | | *** | " | - | " | *** | *** |
| Buldana | | • | " | I,199 | | | 1,199 | 342 | 15,110 | | | 15,473 | " | | - | | 144 |
| Yeotmal | | | | | " | *** | 310 | 8,806 | | | | 31,957 | | | | -14 | *** |
| A kola | | | | | | | | | 3,432 | | | 4,648 | 1 | | | | P#3 |
| | | | | ļ | | | | <u> </u> | - | | | ! { | _ | | | <u> </u> | |
| | | Totul, | | 1,199 | ,,, | | r,199 | 9,148 | 38,824 | 4,106 | | \$2,078 | | ,,, | | | *** |
| Total Bergr Betul. | excluding l | Nimar an | r r,124 | 21,416 | 160 | | 22,700 | 153,476 | 231,662 | 7,718 | 65,525 | 458,351 | | t20,424 | | | 110,424 |
| Grand Tota | al figures of 10 | 911 12 . | 345 | | | | 145 | 149,569 | 309,789 | 5,789 | 10,589 | 481,736 | | 111,419 | | 7,416 | x18,835 |
| Je-Clas e A | " (Permanent | Reserves). | | | | | | | | | | | | | | | |
| Nimar | | ** | | 894 | | | | 14,871 | 355,614 | 1,459 | | 372,944 | <i>~</i> | | | 313 | reb |
| Figures of 191 | 1- 1 2 | ** | | 444 | | | | 9,124 | 249,846 | 150 | | 259,128 | | | | *** | esM |
| Betul | 104 | • | | 21,151 | - | | 21,151 | 13,774 | 83,627 | | | 97,401 | ļ | *** | | 417 | *** |
| Figures of 191 | I-12 ₁₀₁ | , | | 22,011 | | | 22,021 | 29,551 | 107,787 | 141 | *** | 137,338 | | *** | | *** | |
| Tota | il Nimar and | Betul , | | 91,151 | | Aph | 21,151 | 28,645 | 340,211 | x,459 | 114 | 370,715 | | | | *** | LES |
| To | tal Brran C | incre " | 1,124 | 42,567 | 160 | | 43,851 | 181,t91 | 571,903 | 9,177 | 65,526 | 829,726 | | 120,434 | | | 120,424 |
| Geand Total Dinar. | Central Pro | Midcep y | 116,793 | C79,0/1 | 733 | | 703,196 | 730 \$67 | 7,040,236 | 104,715 | 65,525 | 7,941,943 | 2,291 | 33A,83t | ART | | 344,062 |
| atthing to be a second | - | Marija da sprinstan L | | i | - | - زود خرادات | { | 1 | | · | (| alabe la Sa | <u>.</u> | Arrangados . | " | - | 1 |

Timber and Fuel during the year 1912-13 and Agency of Exploitation .- (Concld.)

| Clean mas a | | ecilancor | le a alema 19e | - 1.5.0 | .auh é | ا صد محمده: ال | otalimbr | , <u>, , , , , , , , , , , , , , , , , , </u> | 120 4 1 | A spanner, to | | Fuel. | The additional " | | arain ream ru | PROPERTY OF THE PROPERTY OF A PROPERTY OF THE |
|-------------|----------|-------------------------|-------------------|------------------|----------------------|--------------------|------------------|---|------------------|-----------------|------------------------|-------------------|-------------------|---------------------|----------------------------|---|
| Govern | Pur- | Int Gran- tics. | Right- | letef | Govern- | Pur- chest- | free Courtes. | Richi- hallor | Lotal | Govern- ment | Par- cha ers. | Free Brintees, | Kighl- holders | lotal. | Total outturu. | Remails. |
| 37 | 15 | 19 | 3) | 31 | 22 | 3- | 2 f | 25 | 26 | 27 | 29 | 29 | 30 | 31 | 33 | 33 |
| C. 11. | (. tt . | C, ft | , _{ft} | Cit | r n | C H | f. fi | (. ft, | c. a. | (ft | C. EL. | C. ft. | C. 11 | с. п. | C. ft | |
| | | | | | | | | | | | | | | | | |
| e4 | ••• | 23 | | | | au I | • | •• | 211 | , | 10,906 | | ., | 10,001 | 11,197 | |
| 401 | # | **1 | ı, | | 4- | r sh | | " | 1 1(S | 2 | 2,371 1,730 | ** | ·•• | # 373 1,330 | 2,374 4,498 | |
| | | | | | *** | 2, 1 2 | | | دەد,د | | 4,89* | | ••• | 1,5 a | 7,164 | |
| ••• | | | • | •• | | | | | | 50 | 6,618 | m | > 11 | 8 6u8 | 8 668 | |
| Sad | | | | ., | | ,,(22 | | | 1,072 | 52 | 1107 | 414 | | 31,1 ₅ 9 | 34,181 | |
| - | | | | | | | | | | | | • | | | | |
| *** | | | , | | *** | •• | | | *** | | ••• | •• | | ess | s | |
| *** | *** | | • | •• | 411 | 1,119 | " | | 7,199 | l | 167,111 | 1,100 | 449,000 | ₫ . ₫.31 £ | 6,17,520 | |
| 411 | 4,703 | 61 | 1,123 | 9,4'6 | 342 5,806 | 10,1,03 20,21,3 | 2t | 4,76) | '5,059 '1,0 7 | + 5 9% | 72,485 | ,, | 23,851 277,054 | 101,035 | 1,26,09\$ | |
| *** | *** | | *** | *** | 177 | 3,133 | 2, 119 | | 1,048 | ,,,,,, | 2: 8,011 50,075 | " | *17,954 | 542,568 <0,070 | 571,5 3 5 51,794 | |
| , | | | | | | | <u> </u> | | | | | | | | | |
| *11 | ^,7 3 | | 4,793 | 9,5'6 | 9,118 | 14,816 | 4 11 6 | 1,795 | 62,567 | 11,199 | 4,87,7 ⁹ 7 | 1,300 | 709,808 | 1,709,990 | 1,379,653 | |
| 25 | 7,259 | 7,0 | ۲,5,۰ | 16,924 | 154,628 | 7 97,790 | 9,627 | 71,701 | 60 1,8 10 | 203,981 | 2,155,109 | 1,010 | 1,7/5,019 | 7,776,174 | 1,954,591 | |
| 250 | 6 472 | 1,030 | 7.119 | 1 L 927 | 150,19‡ | 427,6E0 | 6,814 | 31,124 | 615,343 | 2,30,386 | I,/97,0 ^{0,7} | | 1,121,812 | 3,359,313 | 5 975.156 | 1 |
| 1 | | | | | | <u> </u> | | | | | | | | | | |
| 2,404 | £4,709 | 11,110 | <i>"</i> | ţ₽,239 | 17,275 | 281,323 | 12,578 | | 311,876 | 17,110 | 8/9,472 | 13/,500 | 20, | 1,042,042 | 1,353,218 | |
| 2,217 | 17,047 | 2,944 | | 22,203 | II,445 | -66,593 | 1 | | 291,329 | İ | | 44,91 (| *** | 666,058 | 947,381 | |
| I,481 | 55,677 | 11,473 | *** | 58,644 | 15,255 25,050 | 163, 155 | | 1 | 187,193 | 27,603 | | 170,767 | 427 | 555,813 | 1 | |
| \$,500 i | 12,677 | 10,037 | " | 28,413 | 75,050 | 142,684 | 10,027 | *** | 187,772 | 5,200 | 307,199 | 229,413 | | 540,818 | 728,590 | |
| 3,885 | 8,0386 | 21.502 | 411 | 100,°03 | 32,530 | 412,778 | 24,051 | 100 | 498,359 | 50,713 | 1,227,875 | 317, 267 | | 1,597,84 | 2,096,214 | |
| 3,913 | 87,674 | 23,341 | 8,879 | 121,767 | 187,158 | 822,568 | 32,678 | 74,364 | 1,116,768 | 256,699 | 3,382,984 | 320,337 | 1,374,019 | 5,13 (,029 | 6,45%,797 | |
| 34,639 | 142,984 | 33,522 | 8,839 | \$09, 984 | 68/ ₁ 430 | 8,197,322 | 128,969 | 74,361 | 9,188,085 | 1,207,212 | 23,408,577 | 1,141,747 | 1,974,019 | 27,131,55 | 5 36,419,640 | |

in producing it being entered in cubir feet solid, and which are only estimates, it being also noted in the latter case how the figures have been arrived at.

FORM No. 20. - [PRESCRIBED.] - Outturn of Minor Forest Produce during the Forest year 1912-13.

| on, | Description of produce. | By Government | | By purchase | | By fice-gri | nts. | B right-h | y older | i otal | |
|--|-------------------------------------|-------------------|--------|----------------|----------|----------------|--------|--------------|------------|------------|--------------|
| on, | | Quintity | Value, | Quantity. | V duc. | Quantity | Value. | Quantity. | V due. | Quantity | Value, |
| | g | 3 | 4 | š | 6 | 7 | 8 | 9 | 10 | II | 12 |
| | | <u> </u> | Rs | <u></u> | Rs. | | R ,. | | Rs. | | Rs. |
| | NORTHERN CIRCLE I.—Reserven Forests | | | | | | | | | | |
| ſ | Bamboos Ton | 190 | 1,131 | 9.393 | 46,109 | 91 | 509 | | | 9,674 | 47 749 |
| | " Tons Commutation | | | *** | 5,465 | | *** | ••• | 1 | | 5,466 |
| | Leas | e | | 867 | 4,640 | | | | *11 | 867 | 4,640 |
| | Grazing | | | | 4,65,269 | | 4,432 | *** | *** | 414 | 4,69 701 |
| | Grand Ton | 1 | 56,657 | 8,481 | 4,642 | 821 | боз | | ., | 11,277 | 61,992 |
| 8 | , Commutation | 1 | 144 | 1,100 | 4,736 | | •• | ••• | | 1,100 | 4,736 |
| ž | , Lers | ι | ,,, | 4,942 | 14,696 | ••• | *** | 411 | | 4,942 | 14,696 |
| T. | Harta Ton | 754 | 17,670 | 411 | | 174 | *** | | | 754 | 17,670 |
| entra | " Leas | е . | | ., | 4,909 | | ••• | | | | 4,909 |
| j j | Lac Tor | S 2 | 619 | [| *** | " | •• | | | 2 | б19 |
| S S | " . Lers | е | | 43 | 14,734 | ٠, | •• | | ••• | 43 | 14,734 |
| neta { | Mahua and Ton Achar. | , | | 29 | 131 | 2 | 19 | | ••• | 31 | 150 |
| ا ج ا | , Leas | е | 638 | 49 | 4,301 | *** | , | | **1 | 49 | 4,301 |
| g E | Hides and Horns. Tor | 15 3 | 96 | **1 | *** | *** | *1 | *** | | 3 | 9 6 |
| 10 20 | ., Leas | e | | 38 | 7,504 | *** | | | | 38 | · -7,504 |
| All Divisions of the Northern Circle, Central Provinces. | Other minor Tor produce, | 1S 80 | 170 | 8,706 | 4.307 | 4,833 | 880 | | | 13,619 | 5 357 |
| ₹ | ,, Commutation | ı | • | 2,204 | 24,197 | | *** | | *** | ' 2 204 | 24 197 |
| ļ | ,, Lea- | e | | 170 | 11,940 | | *** | 1+1 | | 170 | 11,940 |
| | Mineral pro- Tor | 73 | 25 | 1,892 | 2,335 | •• | | 444 | p to 1 | 1,965 | 1,360 |
| ı | " Len | ж | 101 | 181 | 493 | | | ,,, | | * 181 | 493 |
| | Rusa grass | | | 948 | 437 | | "" | | *** | 130 | 437 |
| ĺ | 7 | . ,,, | 76,368 | | 6,19,846 | *** | 6,533 | 44+ | 113 | *** | 7,02,747 |
| | SOUTHERN CIRCLE I—RESIRVED FOR STE | | | | | | | | | | |
| - | | 183,353 | 4,404 | 15,383,662 | 95,639 | 907,606 | 5,643 | *** | | 16,474,621 | 1,05,686 |
| | G12zing Anima | ls | | 861,079 | 2,74,239 | 8,465 | 2,498 | ,,,, | | 869,544 | 2,76,737 |
| | Fodder grass To | ¹⁵ 637 | 9,039 | 61,375 | 13,992 | 54 | 20 | ••• | | 62,066 | 23,051 |
| | Thatching grass. ,, | 457 | 893 | 99,943 | 63,301 | 2,118 | 999 | 4.00 | 101 | 102,518 | 65,193 |
| | Hura To | 1S 1 | 72 | 1,621 | 19,988 | 411 | 444 | | ,,, | 1,622 | 20,060 |
| -Luce | Lac " | 4 | 1,255 | 26.4 | 8,820 | *47 | 141 | | 101 | 268 | 10,075 |
| Fro | Mahua and Char | 10 | 63 | 741 | 2,271 | 10 | 12 | | *** | 761 | 2,346 |
| Frovinces. | Hides and s Horns. | " | 39 | 463 | 5,257 | F01 | *** | *** | | 463 | 5,296 |
| | Other minor pro- | 65 | 1,926 | 24,858 | 16,776 | 772 | 1,247 | 648 | 4,0 | 25,695 | 19,849 |
| | Mineral products. Cft. | , , , , , | 440 | 1,059,425 | 2,804 | 38,96 3 | 372 | *** | Viya | 1,098,388 | 3,176 |
| Į | Total , | 3. | 17,691 | ,,, | 5,03,087 | 111 | 10,691 | 810 | *** | 944 | 5,31,469 |

FORM No. 20.— [PRESCRIBED.]—Outturn of Minor Forest Produce during the Forest year 1912-13. —(Contd.)

| | | | | | Pr | oduce removed | or utilized | l. | - | | |
|------------------------|--|---------------|----------------|-------------------|--------------------|----------------|----------------|------------------|---------------|---------------------|------------------|
| | Description of produce | R Governme | y nt agency | By purchase | re | By free-gra | nts. | . By nght-ho | lders | Total. | |
| | | Օսորելեյ | Value | Quantity. | Value. | Quantile. | Valne | Quantity | Value. | Quantity. | Value. |
| - | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 12 |
| | DED AD CURCUE | | Rs | | Rs | | Rs. | | Rs. | | Rs. |
| | BERAR CIRCLE. I.— CLASS "A" (TIMBER AND GRASS RESERVE.) | | | | | | | | | | |
| | Bamboos N | 1 | 863 | 2,043,911 | 32,890 | 1,850 4 | 33 3 | 268,400 2,720 | 3,980 988 | 2,327,700 67,000 | 37,775 61,519 |
| 1 | Fodder grass Tor | 1 | 3,860 | 63,748 316,244 | 56,668 1,17,423 | 1,343 | 277 | 14,749 | 3,046 | 332 336 | 1,20,746 |
| 1 | Grazing cattle N | 1 | 40 | 860 | т 146 | | 800 | | | 890 | 1,185 |
| 1 | Rusa grass Lea: | 1 | 40 | ,, | 12 409 | *** | ••• | | ••• | | 12,409 |
| İ | Rusa oil lb | 1 | | | 250 | *** | | | • • | ••• | 250 506 |
| | Lac See | 841 | 421 | 350 | 175 | 794 | | " | 100 | 1,191 4,62,814 | 596 1,948 |
| | Mineral products To | 12,970 | 94 | 71,816 | 1,236 | 443 | 86 | 377,585 | 542 | 46-362 lbs. | 331 |
| ļ | Animal products. | ns 342 lh>. | 84 | 4620 lbs. | 247 | ••• | | *** | *** | 2,158 | 608 |
| 1 | N | 0 1,467 | | 681 | 93 | ,,, | 29 | 570 | 1,225 | 3,115 | 8,600 |
| | Miscellaneous . To | 1 | 836 | 23 333 | 6510 | 26 | | 372 | ••• | , | 2,045 |
| | Minor produce Lea Myrabolams | | *** | *** | 2,045 1,280 | | | | | | 1,280 |
| | Myrabolams ,, | | 6,713 | | 2,32,371 | | 438 | 5 | 9,781 | | 2,49,293 |
| ١, | II Class "B" (GRA | | 1,7,5 | | | | | | | | |
| All Divisions of Asia: | Ramboos I | 10 | .,, | 4,208 | 1,441 | | | | | 4,208 | 1,441 47,285 |
| | Fodder Grass To | ons 41 | 3,285 | 41,634 | 43,991 | S | 1 9 | 9 | " | 42,051 16,086 | 5,985 |
| | Grazing cattle 1 | No | | 16,086 | 5 985 | ,, | " | "" | " | 10,000 | 180 |
| į | Rusa grass { Tr | Ona | | 92 | 1 | ł | | 204 | *** | | :57 |
| | (Le | ase | | | 157 | l . | , " | | | 23,361 | 282 |
| | Mineral propucts T | ons | | 20,361 lbs. | 1 | ' | | | | Tons lbs. | 13 |
| | Animal products " | | | 12240 | 1, | | • | | | 468 | |
| | | ons , | _ | 468 | | | | 8 | | | 55,433 |
| | Total , | | 3,28 | 5 | 53,120 | <u> </u> | - | | | | - |
| | III —CLASS "C" (PAST GROUNDS). | UPR | | | | | | | | | |
| | Bamboos | No | , | 125,59 | 2 1,16 | 7 | - | | A50 | 1 | 3 |
| | Fodder grass | Cons | 3 | 2 2,97 | 3,82 | 2 | " | | | | Į. |
| | Grazing cattle | No | | 1,216,48 | 0 2,23,97 | 0 124,01 | 5 23,2 | ı | 1 | 1 . | |
| | Rusa grass Rusa oil | . 1 | ,, en | ,, | i | 4 | | | | 10 | 1. |

FORM No. 20.— [PRESCRIBED.]—Outlurn of Minor Forest Produce during the Forest year 1912-13.—(Concld.)

| | | | | | Г | induce icomy | d or utilize | ·d. | | | |
|---------------------------|---|---|----------|-------------|-----------|----------------|--------------|-----------|------------------|-----------------------|------------------|
|) | De explina of produce | Py Government | ta 1165 | Py jucht | LI | By free pid | u te | rı lit b | diders. | Intal. | |
| ļ | | Quatity | Ville | Quant to | Vile . | Quantity. | Value, | Qaantity. | Value. | Quantity. | V ilue. |
| 1 | 9 | | 4 | 4 | 4 | 7 | 8 | 1 | 10 | 11 | 13 |
| | BFRA & CIRCLE, | | Rs | | Rs | | Rs. | | Rs. | | Rs. |
| | III - Cras, 'C' (Pa- rune Grounds) (Concld.) | | | | | | | | | | |
| . [| Mineral products Ton | 72 | 26 | 725,292 | 7,118 | 451 | 79 | | | 725 815 Tons . lbs | 7,22 3 |
| | An in d products | 6 lb | 1 | 10 | 36 | | | | . | 10-16 | 37 |
| | M scellineous No | ļ i | *** | | 46 | б | | | | 46 | 6 |
| picper. | Minor produce I on | 70 | 155 | 7,922 | 1, 153 | 5 | 8 | 1,600 | 2,400 | 9,597 | 14,686 |
| À | Tot 1 | | 184 | | 2,48,315 | *** | 23,338 | | 15,574 | | 2,87,411 |
| Ē | Total Berar, excludin | , | 10,182 | ••• | 5,33,806 | ••• | 23,794 | | 25,355 | | 5 93,1 37 |
| | ICiasa "A" (Put manent Ristrats) | | ^ | | | | | | | | |
| (| Bunhoo No | 45,272 | 152 | 4,684,299 | 30,535 | 78,9gn | 556 | | | 1,778,567 | 31,243 |
| | Forder grass | 323 | 3,417 | 56,629 | 46,370 | 3 398 | 4,247 | | | 60,350 | 54 034 |
| | Les | ie | | | 132 | | | *** | ••• | •• | 132 |
| | Craving cattle N | o | | 331,013 | 130 0 15 | 5,236 | 1,823 | | *** | 336,249 | 1,31,868 |
| | Itusa grass To | 115 | | 2,580 | 4.515 | | *** | | ••• | 2,580 | 4,515 |
| | Lea | ъе | "" | *** | 14 731 | *** | | " | *** | *** | 14,721 |
| | Huma " | | 41 | *** | збо | " | | | ••• | 4,4 | 671 |
| | Mahua 3, | | | 111 | 1,174 | | 7 | ' " | *** | | 1,721 |
| | Hides, horns and To | 1 | " | 1 | 49 | | | ••• | •• | 1 | 49 |
| | bones, { Len | j | 12 | | 3,155 | | *** | "" | *** | 200 | 3,167 |
| ivîs'c | , c | i | 20 | 180,316 | 384 | | •• | | *** | 180,316 | _ 404 |
| al D | Minerals To | ns | | 57 | 102 | | | " | " | 57 | tos |
| Bet | (Lea | I | " | 434 | 315 | | *** | | | ••• | 315 |
| r and | Lac . Laa | | 18 | "" | " |] . | *** | *** | "" | | 18 |
| Nimar and Betal Divisions | Miscellaneous To | ļ | "" | 903 | 893 | 1 | | 1 | *** | 1,365 | 1,217 |
| 4 | Minor produce I.e. | 1 | 400 | | 5,670 | I | 921 | İ | 417 | *** | 6,591 |
| | Commutation | | | tes | 3,208 | | - 0-0 | | ''' | *** | 3,208 |
| | Total III.—CLASS "B-I".— (AVAILABLE FOR AGRI- CULTURE.) | *************************************** | 3,660 | C R de | 2,42,438 | | 7,878 | 1 | | POD | 2,53,976 |
| | Grazing cattle N | 0 | *** | 1,682 | 274 | | #17 | lies | 8.90 | 1,682 | 274 |
| | Total | *** | *** | 1 682 | 274 | pa4 | | | | 1,682 | 274 |
| | Total Nimer and Betul | | 3,660 | Kdh | 2,42,712 | 433 | 7,878 | 3 | 205 | *** | 2,54,250 |
| | Total Berar Circle | 111 | 13,842 | 144 | 7,73,195 | 104 | 51,830 | 5 | 9,271 | 245 | 8,48,145 |
| | GRAND TOTAL C. P. AL | 10 | 1,07,001 | TAS | 18,96,128 | *** | 69,060 | ,,, | 9,272 | 310 | 20,82,36x |

FORM NO. 21.—[PRESCRIBED.].—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13.

| | Name | of Division, | | | | Balance at commencement of the year in fortists and rate depôts. | Received during the year. | Total. | Disposed of during the year. | Balance in hand at close of the year in forests and sale depôts. |
|------------------|-------------|---------------|--------|--|------|---|---------------------------------|----------------|------------------------------------|--|
| | | 1 | | ······································ | - | 2 | 3 | 4 | 5 | 6 |
| | | | | ,,, | -j- | C. ft. | C. ft. | C. ft. | C. ft. | C. ft. |
| | | Timber. | | | | | | | | |
| Mandla* | | *** | *** | | | 50,085 | 37,034 | 87,119 | 40,008 | 47,111 |
| ubbulpore-Narsi | nghpur (b) | ••• | *** | | ••• | 5,510 | 24,300 | 29,810 | 7,952 | 21,858 |
| Damoh | 411 | *** | ••• | | *** | 20,475 | 225,000 | 245,475 | 128,020 | 117,455 |
| Saugoi | *** | 419 | *** | | | 2,594 | 22,440 | 25,034 | 19,909 | 5,125 |
| Hoshangabad | *** | *** | *** | | | 924 | 17,643 | 18,567 | 16,967 | z ,60z |
| Seoni | 471 | ••• | *** | | Pho | 22,451 | 7,007 | 29,458 | 24,882 | 4,570 |
| Chhindwara | | 194 | 491 | | *** | 44,409 | 25,957 | 70 ,366 | 39,339 | 31,02 |
| | • | | 1 | Total | | 1 16,448 | 359,381 | 505,829 | 277,077 | 228,75 |
| | F | uel. (C. ft.) | | | - | | | • | | |
| Mandla* | 142 | *** | *** | | ••• | 65,861 | 100 | 65,961 | 15,361 | 50,60 |
| Jubbulpore-Narsi | nghpur (I) | *** | *** | | | 6,096 | 6,810 | 12,906 | 7,046 | 5,80 |
| Damoh | *** | *** | *** | | 111 | 156,361 | 443,535 | 599,896 | 221,345 | 378,5 |
| Saugor | ••• | 400 | *** | | | 6,795 | 16,337 | 23,132 | 19,490 | 3,6. |
| Hoshangabad | 444 | E po | 400 | | | 1,410 | 22,792 | 24,202 | 24,202 | |
| Seoni | *** | *** | 449 | | *** | 8,355 | 26,085 | 34,440 | 23,475 | 10,9 |
| Chhindwara | 141 | *** | 494 | | 400 | 3,070 | 23,262 | 26,332 | 6,783 | 19,5 |
| | | | | Total | | 247,948 | 538,921 | 786,869 | 317,702 | 469,1 |
| | Minor Fores | T PRODUCE (V | ALUR). | | | Rs. | Rs. | Rs. | Rs. | Rs. |
| Mandla* | *** | *** | *** | | , | 253 | 18,953 | 19,206 | 18,027 | 1,1 |
| Jubbulpore-Nar | | 446 | *** | | .,, | 5,517 | 203 | 5,720 | 5,574 | . 1 |
| Damoh | 414 | *** | *** | | *** | (a) 1,878 | i | 2,680 | 2,130 | |
| Saugor | 476 | 417 | | | 740 | 2,148 | 412 | 2,560 | 2,469 | • |
| Hoshangabad | 404 | *** | ••• | | 41, | 6 | 54,769 | 54,775 | 54,769 | • |
| Seoni | *** | ** | *** | | *** | ••• | 242 | 242 | 21. | 5 |
| Chhindwara | 414 | *** | *** | | *** | 44 | 987 | 1,031 | 8: | / |
| | | | | Total | 44.0 | 9,846 | 76 ,368 | 8б,214 | 83,27 | 2, |
| | | Timber. | | | | C, ft | C. ft | C. ft | . C. fi | . с. |
| Balaghat | #144 | 425 | *** | | 44 | 6,920 | 1 | | 12,72 | 8 7 |
| Bhandata | 140 | 404 | *** | | ** | . 500 | 7 | l . | } | 5 5 |
| Bilaspur | 857 | *** | *** | | ** | . 10,09 | 1 | | 1 | (|
| North-Chanda | | 748 | *** | | ** | 23,68 | 4 | | 8 40.75 | 8 8 |
| South-Chanda | | ••• | petito | | • | . 131,14 | į | | 5 83,77 | 78 |
| Nagpur-Ward | | 111 | *** | | | 3,95 | 8 13,97 | 0 17,92 | 8 12,40 | 5 9 |
| Raipur | 146 | p41 | 401 | | | . 27,79 | Ì | ŀ | 42,07 | 76 45 |
| | | | | Total | | 206,29 | | | 3 293,3 | 255 |

^{*} North-South Mandla excluding Uhanwahi Range.

(a) Due to inclusion of Rs. 998 on account of value of grass which was omitted from last year's balance.

(b) Includes Dhanwahi Range also.

FROM NO. 21,—[PRESCRIBED].—Account of Timber and other Produce cut or collected by Government Agency brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13—(Contd.)

| | n mucrobagus | Name of Division | | | Balance at communicement of the year in forests and sale depots. | Received during the year. | Total. | Disposed of during the year, | Balance in hand at close of the year in forests and sale depots. |
|---------------|--------------|----------------------|--|-----|--|---------------------------|---------|------------------------------|---|
| | - | į. | | | 3 | 3 | 4 | 5 | 6 |
| - | - | | namen maken and traditional maken and the second | | C, ft. | C ft, | C ft | C. ft | C. ft. |
| | | Fuel (C. ft) | | | | | | | |
| Balaghat | •• | n: | 415 | , | 37,100 | 34,108 | 71,208 | 55,300 | 15,908 |
| Bhandara | •• | 166 | *** | *** | 1,800 | 21,150 | 22,950 | 11,775 | 11,175 |
| Bilasput | 441 | *** | 945 | *** | 112,125 | 2,827 | 114,952 | 113,452 | 1,500 |
| North-Chanda | ٠ | 600 | *** | •• | 12,040 | 10,840 | 22,880 | 16,520 | 6,360 |
| South-Chanda | •• | *** | • • | •• | 735 | 3,150 | 3,885 | 3,480 | 405 |
| Nagpur-Waidha | *** | *** | * * | *** | 480 | 222,341 | 222,821 | 26,577 | 196,244 |
| Raipur | ••• | ••• | - | •• | 97,248 | 117,176 | 214,424 | 153,624 | 60,800 |
| | • | | Total Fuel | ** | 261,528 | 411,592 | 673,120 | 380,728 | 292,392 |
| | | | | | Rs. | Rs. | Rg. | Rs. | R: |
| | | MINOR FOREST PRODUCE | 4 | | | | | | |
| Balaghat | | | | | 600 | Post | n and | 9 | £ a a |
| Bhandara | | *** | 149 | *** | | 825 | 1,458 | 839 | бід |
| Bilaspur | 446 | *** | *** | ** | 12 | 1,430 1,679 | 1,442 | 1,427 | 15 |
| North-Chanda | μ. | **** | •1• | • | 309 68o | 2,835 | 1,988 | 1,756 | 2 32 |
| South-Chanda | 111 | | 41 | • • | | 1,083 | 3,525 | 3,012 | 503 |
| Nagpur-Wardha | | *** | ••• | 117 | 364 | | 1,447 | 1,375 | 72 |
| Raipar | *** | *** | *** | ** | 77 | 5,183 | 5,260 | 4,526 | 734 |
| • | | , | *** | 414 | 537 | 4,656 | 5,193 | 3,697 | 1,496 |
| | | Total Minor Fo | rest Produce | ••• | 2 612 | 17,691 | 20,303 | 16,632 | 3,671 |
| | | | | | C, ft. | C. ft. | C, ft. | C, ft. | C, ft, |
| | | TEAK TIMBER. | | | 1 | | | | |
| Melghat | | 101 | 114 | *** | 3,698 | 116,787 | 120,485 | 116,771 | 3,714 |
| Amraoti | *** | 484 | *** | | 5 | 405 | 410 | 405 | 5 |
| Budana | 481 | *** | *** | •• | 3,002 | 3,155 | 6,157 | 2,522 | 3, 6 35 |
| Yeotmal | 744 | • • | ijan | *** | 25,759 | 21,613 | 47,372 | 29,867 | 17,505 |
| Akola | 146 | 409 | 349 | | | 6,434 | 6,602 | 6,506 | 96 |
| Nimar | ••• | Res | *** | ** | 8,721 | 14,871 | 23,592 | 15,808 | 7,784 |
| Beinl · | *** | 16 a | •44 | ** | | 18,774 | 28,702 | 15,436 | 13,466 |
| | | Total | Teak timber | 24, | 56,281 | 177,039 | 253,320 | 187,115 | 46,205 |

FORM NO. 21.—[PRESCRIBED].—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13.—(Concld.)

| | | Nau | ne of Dryiston. | | | Briance at commune ement of the year in forests and sale de nôts | Re olved during the year. | Total. | Disposed of during the verr | Balance in hand at close of the year in forestr and sale depote. |
|----|----------------------------|----------|-----------------|----------------|------|---|---------------------------|----------------|-----------------------------|---|
| | والمراجع والمسالة | | I | | | 2 | 3 | 1 | 5 | 6 |
| - | | - | | | | C ft | C ft | C. ft. | C. ft | C, ft. |
| | | Tiyber | OTHER THAN TEA | ĸ | ĺ | | | | | |
| M | elghat | *** | •• | •• | | 12 | 314 | 326 | 7 | 319 |
| Āı | mraoti | | *** | •• | ••• | 112 | 110 | 212 | 212 | •• |
| Bı | ıldana | *** | • | • | | 1,628 | 869 | 2,497 | 46 0 | 2,037 |
| Y | eotmal | *** | *** | • | | 2,142 | 5 621 | 7,753 | 6,518 | 1,235 |
| A | kola | | *** | 444 | | 392 | 4 33 | 825 | 825 | 641 |
| N | mar | • | 44.6 | èsa | | 2,680 | 2,404 | 5,084 | 2,330 | 2,754 |
| Be | tul | •• | ••• | *** | | 36,959 | 1,481 | 38,440 | 37 339 | loli |
| | | | Total Timber of | ther than Teak | | 43 925 | 11,212 | 55,137 | 47,691 | 7,446 |
| | | | | Total Timber | | 100 206 | 188,251 | 288,457 | 234,800 | 53 65 1 |
| | | | Fuel | | | | | | | |
| M | Iclghat | | ••• | *** | | 105 | 3,456 | ვ,ყნг | 3 545 | 16 |
| A | mraoti | | *** | *** | ••• | 704 | 25,834 | 30,538 | 23,438 | 7,100 |
| B | uldana | | *** | *** | ,, | 23,454 | 23,036 | 46,490 | 18,155 | 28,335 |
| Y | eotmal | *** | ••• | | | 140,584 | 92,110 | 232,694 | 177,582 | 55,112 |
| A | kola | ••• | • | 144 | | 7,920 | 82,128 | 90,048 | 68,623 | 21,425 |
| N | imar | *** | 111 | **4 | ja s | 19,890 | 25,110 | 45,000 | 34,775 | 10,225 |
| В | etul | •• | •• | 4** | ••• | 16,750 | 27,603 | 44,353 | 20,237 | 24,116 |
| | | | | Total Fuel | *** | 209,407 | 283,277 | 492,684 | 346 355 | 146,329 |
| | | Minor | FOREST PRODUCE | | | R \$ | Rs. | Rs, | Rs | Rs |
| M | lelghat | 41 | *** | 10, | *** | 278 | 1,653 | 1,931 | 1,299 | 632 |
| | mraoti | 129 | | 5R+ | ., | | 604 | 721 | 591 | 130 |
| E | uldana | *11+ | 414 | 144 | | | ' | 2,093 | 2,002 | 91 |
| ¥ | eotmal | *** | ••• | *** | ••• | | 1 | 5 o66 | 4 658 | 408 |
| Ā | kola | *** | bo f | *** | 1, | | | 1,813 | 1,813 | ., 1 |
| 1 | Vimar | 160 | 101 | | 19 | | | 44,109 | 44,069 | 40 |
| F | leiul | *** | 447 | *41 | 4 | | | 102 | 74 | 28 |
| | | | Total Minor | Forest Produce | •• | 1,180 | 54,655 | 55,815 | 54 506 | 1,329 |
| | | | Timber | Cít. | | 100,200 | 188,251 | 288,457 | 234,806 | 53651 |
| _ | | _ | Fuel | 5) | | *** | | 492,681 | 346,355 | 146,329 |
| 3 | Cotal Bebar (| Circle | <u> </u> | | | 309,619 | 471 528 | 781,141 | 581,161 | 199,980 |
| | | | Total Minor F | orest Produce | | 0 | <u> </u> | 55 83 <i>5</i> | | 1,329 |
| | | | (Timber | Cft. | 44 | | 1 . | 1,341,469 | | [|
| (| érand Totai Provinces a | CENTRAL | Fuel | ** | 41 | 7.00 | | 1,952,673 | - | |
| | | un THEVE | Minor Produce | | | 13,63 | | 1,62,352 | | 7,943 |

FORM NO. 22.—[PRESCRIBED]—Abstract showing the Value of Timber and other produce at Sale Depôts for the Forest year 1912-13.

| | | Ou ha | nd strenm n | cm ut | ()1 | n land it class | cf the | Differ \12 | rence in iluc | - |
|---|------|-------|------------------------------|-------------|-------|---------------------|----------------|------------------------------|-----------------------|---|
| Des extion et link i sulother polnic | | No. | ∪ it | V 1c | No | C it | Vilut. | In favour of the year. | Agunst the vear | Remuis. |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | Rs | | | Rs. | Rs. | Rs | |
| YURTHERY CIRCLE. | j | | | | | | | | | |
| Timber | *** | *** | 146 148 | 13 756 | | 228,752 | 25,911 | 10,455 | ••• | |
| Fuel | | 144 | 247,948 | 4,173 | | 460 167 | 10,536 | 6,464 | *** | |
| Minor Profice | | | , | *9,846 | | | 2 943 | *** | 6,903 | Due to inclusion of Rs 998 on |
| | | ' | | | | | | | | account of value of grass which was omitted from last year's form. |
| T ot 11 | | 4.6 | nggillightig ugan dirimunum. | 29,374 | 7,0 | - 11 | 3 9,390 | 10,016 | •• | |
| SOUTHERN CIRCLE | | | | | | bush-part professor | | | 4 (18,122 1994 | |
| Timber | | • | 43,298 | 51,749 | 4.1 | 14,226 | 14 374 | | 37 ,375 | |
| Fuel | | 411 | 330 | 11 | | 108 | 7 | *** | 4 | |
| Minor produce | | ••• | I | 325 | | | 515 | 190 | H1 | |
| | | | | | | | | | | |
| Total | | by+ | 43,628 | 52,085 | • | 1 4,3 34 | 14,896 | 44. | 37,189 | Net difference against the year Rs. 37,189. |
| BERAR CIRCLE. | | | | | | Blan | k. | | | |
| GRAND TOTAL FOR CENTRAL I VINCES AND HERAR. | PRo- | 486 | 644 | 81,459 | Bit 3 | | 54,986 | 10,016 | 37,189 | Net difference against the year Rs. 27,173. |

FORM NO. 23.—[PRESCRIBED].—Abstract showing the Value of Live and Dead-stock for the Forest year 1912-13.

| | | | | mencem | d at com- nent of the ear. | | and at the year. | Difference | e in value. | |
|--|-----------|----------------------|-----|--|--|-----|---------------------|---------------------------------|-------------------|--|
| Descriptio | n of Live | and Dead-stork. | | No. | Value | No. | Value | In favour of the year. | Against the year. | Remarks. |
| Company of the Control of the Contro | 1 | | | 2 | 3 | 4 | 5 | б | 7 | 8 |
| | | | | | Rs. | | Rs. | Rs. | Rs. | |
| | RTHERN | I CIRCLE. | i | | ļ | | | | | |
| Elephants | | *** | } | б | 5,626 | 6 | 4 950 | • | 676 | |
| Other live-stock | *** | *** | | 6 | 98 | 8 | 151 | 53 | | |
| Dead-stock | 449 | ygd | | *** | 1,73,111 | 58¢ | 1,30,4 2 5 | | *42,686 | *Owing to some of the Divisional Forest Officers having omitted to show the value of buildings in column 5 of the form. |
| 90 | | otal Northern Circle | | | 1,78,835 | н. | 1,35,526 | \$30 | 43,309 | |
| | | N CIRCLE. | | | | | | | | |
| Elephants Other live-stock | 644 | • | " | 9 14 | 20,510 | 8 | 18,289 | | 2,221 | |
| Dead-stock | ••• | ·• | | 14 | 375 3,04,222 | 1,, | 350 | 25 | 1,072 | |
| | | otal Southern Circle | | | ************************************** | | 3,03,150 | | | |
| | T | oru Southern Circle | 184 | "' | 3,25,107 | 444 | 3,21,789 | **1 | 3,318 | Net difference against the year Rs. 3,318. |
| E | BERAR (| | | | | | | | | |
| Elephants | *** | 400 | | 5 | 6,942 | 15 | 6,696 | | 246 | |
| Bullecks | 111 | 149 | ••• | 6 | 187 | 8 | 309 | 122 | 414 | |
| | | Total | *1* | 11 | 7,129 | 13 | 7,005 | 122 | 246 | |
| | DEAD-S | TOCK. | | 1 | | | | | | |
| Buildings | P14 | *** | ** | -,, | 1,53,757 | ••• | 1,69,089 | 15,332 | 474 | |
| Mathematical and | other dra | wing instruments | 944 | | 4,582 | 101 | 4,323 | | 259 | |
| Tools | *** | 200 | *** | | 10,209 | *** | 9,5\$3 | | 656 | |
| Furniture | 108 | *** | *** | | 15,393 | | 16,140 | 747 | | |
| Tents | *** | 819 | ••• | | 11,964 | | 9,292 | | 2,672 | |
| Miscellaneous | 490 | *** | *** | | 11,193 | 411 | 9,107 | 279 | 2,086 | |
| | | Total | *** | and the second s | 2,07,098 | #14 | 2,17,504 | 16,079 | 6,573 | Net différence in favour of the year Rs. 10 282 |
| | | Total Berat Circle | ., | 11 | 2,14,227 | 13 | 2,24.509 | 16,201 | 5,919 | Joseph 10 kgg |
| G | rand To | TAL C. P. AND BERAR | *** | ••• | 7,18,169 | 1** | 6,81,824 | 16,201 | 52,546 | Net difference against the year Rs. 36,345. |

| Buági | et Heads. | | | Damoh Division. | Hoshangabad Division. | Jubbulpore Division. | Narsinghpur Division. |
|--|--------------------------|----------------------------|------------|---------------------|--------------------------|-------------------------|--------------------------|
| | I | | | 7 | 3 | 4 | ś |
| | | | Ī | Rs | Rs. | Rs. | Rs. |
| NORTHE | ern Circle. | | | | | | |
| | VENUE. | | | i | | | |
| Timber and other produce removed. | | s ny Government Age | NCY- | | | | |
| ant t | | , | | 9,125 | 1,394 | 162 | 801 |
| d. Firewood and charcoal | *** | | :: | 5,209 142 | 401 11 | 145 17 | 54 3 |
| c. Bamboos d. Sandal-wood | *** | | *** | ••• | 54,758 | 5,465 | 67 |
| e. Grass and other minor produce | e++ | | • | 1,984 | | | |
| | | Total I | •• _ | 16,460 | 56,564 | 5,790 | 232 |
| .—Timber and other produce reme purchasers— | DVED FROM THE | Forest by consumer | RS OR | | | | |
| Timber Firewood and charcoal | *** | | | 581 539 | 42,790 6,48 4 | 4,325 13,533 | 726 1,798 |
| c. Bamboos | | | ••• | 1,974 59,420 | 16,346 28,270 | 5,248 32,41 6 | 1,555 18,993 |
| d. Grazing and fodder grass c. Other minor produce | #11 #14 | | | 17,175 | 4,477 | 5,074 | 2,109 |
| f. Forest stamps g. Other items | | | ::. | *** | ** | *** | 610 |
| k. Commutation fees | * | | | 2,132 | 735 | 3,559 | |
| | | Total II | ••• | 81,821 | 99,102 | 64,156 | 25,791 |
| IL—Drift and waif wood and confisc | ATED FOREST PRODI | JCE | | *** | 197 | 59 | ** |
| | | Total III | | *** | 197 | 59 | 411 |
| V.—Revenue from Forests not manage | ED BY GOVERNMENT | | | | | | |
| a. Duty on foreign timber and other | forest produce | | | ••• | | 4 | |
| 5. Revenue from shared and private | forest | | | *** | *** | | |
| | | Total IV | *** | 631 | 111 | 144 | *** |
| Miscrllanfous- | | | | | | | |
| a. Fines and forfeitures | 449 | | | 27 | 152 | 20 16 | 21 10 |
| 6. Refundsc. Other sources | 99.h ga.b | | *** | 2 7 3,190 | 2,000 5,433 | 3,246 | 1,690 |
| | | Total V | | 3,244 | 7,585 | 3,272 | 1,721 |
| | Gran | D TOTAL REVENUE | ••• | 1,01,525 | 1,63,448 | 73,277 | 27,744 |
| | | | ľ | | | | |
| A.—Conser | vancy and Works. | | | | | | |
| .—Timber and other produce removed | FROM THE FOREST | By Government Agi | ENCY- | | | | } |
| a. Timber b. Firewood and charcoal | 413 1 * | | • | 2,264 4,805 | 56 | *** | *** |
| c. Bamboos d. Sandal-wood | *** | | ••• | 101 | 1 | 3 | 640 |
| a. Grass and other minor produce | 427 744 | | *** | 2,395 | 42,546 | 1,390 | 45 |
| | | Total A-I | | 9,565 | 42,603 | 1,393 | 48 |
| .—Timber and other produce remo purchasers. | VED FROM THE F | Forests by Co nsume | RS OR | 4,320 | 5,815 | 3,723 | 1,745 |
| | | Total A-II | | 4,320 | 5,815 | 3,723 | 1,746 |
| | ITED FOREST PROD | UCE | | *** | ** | 111 | ** |
| L—Drift and waif wood and confisca | | Total A-III | | *** | | 404 | 414 |
| L—Drift and waif wood and confisca | | [| ,, | | | استاستين ايونسيني | - |
| L—Drift and waif wood and confisca V.—Revenue from Fdrests not manag | | | - 1 | ••• | ••• | 877 | *** |
| V.—Revenus from Forests not manag 6. Duly on foreign tumber and other f | orest produce | | *** | | 444 | *** | |
| V.—Revenus from Fdrests not manag | orest produce | ggv . N s | · · · | *** | | | |
| V.—REVENUE FROM FORESTS NOT MANAG 6. Duly on foreign tumber and other fi 6. Revenue from shared and private to | orest produce forests | Total A-IV | 411 411 | pps | *** | 242 | } •11 |
| V.—Revenus from Forests not manag 6. Duly on foreign tumber and other f | orest produce forests | lders in Forests ma | 411 411 | | | 949 | h e e |
| V.—Revenue from Forests not manag c. Duly on foreign timber and other f b. Revenue from shared and private i | orest produce forests | | 411 411 | 144 | =41 | | |

| I. | Seori Division, | Direction Division. | Chhindwata Division | Singor lyisian | Mandia Division | North Mandla Division, | South Mandia Division. | lotal. |
|---------------|---|--|---|--|---|------------------------------------|---|--|
| | 6 | 7 | 8 | 9 | to | 11 | 12 | 13 |
| | Rs. | Rs. | Rs. | Rs | Rs. | R« | Rs | Rs. |
| | 1,472 144 8 59 | 101 200 201 201 202 | 1,817 53 30 | 745 164 10 2,469 | 187 1 400 13,338 | 52 117 3,270 | 18 2 1 | 15,080 6,172 740 81,453 |
| | 1,683 | | 1,942 | 3,388 | 13,926 | 3,439 | 21 | 1,03,445 |
| | 11,303 6,536 5,820 72,150 9,656 | 460 944 444 71 440 440 440 440 440 440 440 440 440 44 | 22,483 4,918 6,411 1,09,306 4,698 | 17,472 13,020 5,853 76,026 6,264 | 21,030 543 4,022 85,905 6,058 | 2,094 178 1,759 813 95 | 11,545 22 1,762 1,639 454 | 1,34,350 47,571 50,750 4,84,947 56,060 51,264 |
| - | 1,17,493 | | 1,47,816 | 1,19,183 | 1,42 383 | 8,606 | 18,591 | 8,24,942 |
| | *** | *** | 114 | | 190 | 4 | 5 | 569 |
| | *** | *** | 114 | | 190 | 4 | 5 | 569 |
| | 01p | F | | 966 | 117 | • | | *** |
| | | ** | **** | *** | | | | 4+2 |
| | 545 57 1,866 | 1 32 | 280 55 11,956 | 100 5,689 | 3 89 3,880 | 1,829 | 400 287 1,000 | 1,538 2,542 39,817 |
| | 2,468 | 33 | 12,291 | 5, 78 9 | 3,972 | 1,829 | 1,693 | 43,897 |
| - | 1,21,644 | 33 | 1,62,163 | 1,28,360 | 1,60,471 | 13,878 | 20,310 | 9,72,853 |
| - | 32 | 300 548 691 886 819 | | 514 | 210 1,196 | 63 5,293 | 4 | 2,546 4,805 378 53,954 |
| , | 254 | ** | 543 | 514 | 1,406 8,697 | 5,356 | 641 | 61,683 |
| ***** | 7,799 | *** | 8,249 | 5,894 | | 639 | | 47,523 |
| ****** | 7,799 | 10 | 8,249 | 5,804 | 8,697 | 639 | 641 | 47,523 |
| **** | *** | | | | 45 | | *** | 45 |
| | 744 | | | 196 | 45 | *** | - | 45 |
| - | 946 A42 Typirm unaugustusika kummuun | 4 kk 4 kp | 4qq +50 | 718 986 | 254 | 4 . | 018 294 | 4 q 4 4qd |
| | AN | 711 | *** | p 4 % | *************************************** | *** | | اور خىمىنىنىسى مىمىنىنىد |
| | þeg . | ,,, | 349 | 414 | 125 | | 184 | *** |
| - | 445 | ** | 240 | 10 | *** | 410 | 0.15 | (19 |

| Bulget Iserds | | | Damoh Division | Hedrographid Division | Jubbulpore Division | Narainghpur Division. |
|---|--|-----------------|----------------------------------|--------------------------|------------------------|-------------------------------|
| I | المهامية والمهامة المستحدد والمستحدد والمستحدد والمستحدد والمستحدد | | 2 | s | 4 | 5 |
| ي شد مجموعهمين | | J | | | | |
| | | | Rs | Rs | Rs | Rs |
| NORTHERN CIRCL | L-(Concld) | | | | | |
| A -Conservance and Wo | rks —(Concld) | | | | | |
| -I IVE TOOK ST 1"s, Touts and PIANT- | | | | 1 | | |
| a Purcha e of cattle b Feed and keep of cattle | | 64 | 1,117 | 56 800 | 876 | |
| c. Purchase of stere , tool and plant | • | . | -1-1/ | 1,329 | 149 | 298 |
| | Total A VI | - | 1,157 | 2 185 | 1,025 | 298 |
| I —Contiduacitions and Buildings— | | - | | | | |
| Roads and had c | *** | | 4 275 | 13,846 | 1 554 | 200 |
| buildings Other works | 4. | . | 3 440 1 002 | 7.258 852 | 1,689 330 | 134 8 |
| | Total A-VII | | 8 673 | 21,956 | 3,573 | 342 |
| IL-Opeani/ thon, improve went and pytems | OA OF FORESTS- | | | | | |
| a Demaic ition | 410 | | 4 n(10 | 306 | 945 | 457 |
| | ••• | • | • • | 20,360 | • | , ,, |
| d. Working plans | # ** | *** | • | | | |
| Sowing and panting f. Protection from the | *** Rod | 140 | 3,137 | 375 6,678 | 3,879 | 721 |
| g Other works | • • • · · · · · · · · · · · · · · · · · | ٠ - | 1,364 | 3,679 | 852 | 162 |
| | Total A-Vili | •- | 5,461 | 31,398 | 5,678 | 1,454 |
| Miscrilancou | | | |] | | |
| g Refunds b Law charges | ** | | 81 | *** | *** | , |
| c. Other charges | 144 | *** | 1,063 | 1,329 | 636 | 24 |
| | Total A-IX | | 1,144 | 1,329 | 636 | 25 |
| Total A. | —Conservancy and Works | ••• | 30 420 | 1,05,286 | 16,028 | 3,910 |
| B,Establish | |]- | | | | |
| -Salaries- | ienh | 1 | | | 1 | |
| | | | | | | |
| a. Conservators b. Superior officers | elb Elb | | 7,710 | 18,760 | 9,600 | 3,196 |
| Subordinate forest and depot establishment Office establishments | 9 *** | ••• | 16316 4,296 | 19,137 5,053 | 17,165 | 4,244 2,007 |
| e. Deputation and special allowances | *** | • | *** | 5,053 676 | ,,, | |
| | Total B-I | | ~8, <u>3</u> 22 | 43,625 | 31,645 | 9 447 |
| | Bonus of half month's salary | | 42 | 10 | | *** |
| -Travelling Allowances- | | - | | | | |
| a. Conservators | m | ••• | 306 | ••• | | |
| Superior officers Subordinate forest and depot establishmen | | : | 1,1 <i>7</i> 3 1,1 <u>5</u> 1 | 2,374 3 024 | 935 2,553 | 517 594 |
| 4. Office establishments | | •••/- | 267 | 473 | 253 | 100 |
| , | Total B-II | " - | 2,591 | 5,871 | 3,741 | 1,217 |
| Contingencies- | | | | | [| |
| | | | 52 781 | 108 | 35 | 30 562 |
| a. Stationery | #L | •••• | 701 74 | 2,305 | 959 94 | 1 |
| a. Stationery b. Carriage of tents and records c. Rents rates and taxes | 979, 948 | *** | , , | | 1 414 | 1 |
| a. Stationery b. Carriage of tents and records c. Rents rates and taxes d. Pay of police guards c. Official postage | 35, 296 510 92, | 244 444 4 | 329 | 793 | • | |
| a. Stationery b. Carriage of tents and records c. Rents rates and taxes d. Pay of police guards | 110 110 110 110 | 111 | | 900 | 299 868 | 511 |
| a. Stationery b. Carriage of tents and records c. Rents rates and taxes d. Pay of police guards c. Official postage f. Sundries | Total B-III | 1117 | 329 | | • | 511 |
| c. Stationery b. Carriage of tents and records c. Rents rates and taxes d. Pay of police guards c. Official postage f. Sundries | Total B-Establishments | 444 | 329 1374 | 900 | 299 868 | 511 1,24 |
| a. Stationery b. Carnage of tents and records c. Rents rates and taxes d. Pay of police guards c. Official postage f. Sundries | Total B-III | 866 | 329 1,374 2,610 | 3,136 | 299 868 2,855 | 140 511 1,245 11,905 |

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of the different Divisions during the Forest year 1912-13.—(Contd.)

| Scont Division | Direction Division. | Chhindwarz Division | Saugor Division. | Mandia Division | North Mandia Division | South Mandla Division. | Total, |
|-------------------------------------|--|------------------------------------|--|---------------------------------|-----------------------------|-------------------------------|------------------------------------|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Rs, | Rs. | R5. | Rs. | Rs, | Rs. | Rs | Rs. |
| 36 53 | 609 350 | 642 284 | 963 1,249 | 542 407 | ••• • | 128 140 | 4,5 5,4 |
| 89 | 969 | 926 | 2,212 | 949 | * 1 | 268 | 10,0 |
| 908 1 938 1,512 | | 3,623 1,162 492 | 1 560 2,127 801 | 708 1,015 123 | 15 950 60 | 347 2,303 175 | 26 g 22,0 6,2 |
| 4,358 | 900 | 5,277 | 4,488 | 1,846 | 1,035 | 2 845 | 55,2 |
| 1,175 64 6,118 590 | 0.pp 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 37 35 5 8 1 0°0 717 | 1,596 4,637 2,540 | 1,754 31 2,960 264 | . 635 583 45 | 228 74 2,365 427 | 8 2 20,3 1,2 33,0 10,6 |
| 7,947 | *** | 2,752 | 9,454 | 5,009 | 1,263 | 3,094 | 73,6 |
| 36 981 | *** *** 41 | 6 317 | 77 937 | , . 4 1,341 | -14 | 34 | *** a 6,7 |
| 1,017 | 41 | 323 | 1 014 | 1,345 | 44 | 34 | 6,9 |
| 21,464 | 1,910 | 18,070 | 23 576 | 19,297 | 8,337 | 6,866 | 2,55,1 |
| 7,325 17,129 4,550 | 17,884 1,645 154 10,588 | 13,200 15,852 4,576 | 17,658 21 659 4 403 1,225 | 13,816 17,587 4,419 | " 1,110 3,627 7,58 | 5,520 3,551 1,200 | 17,8 99 1,36 9 46,7 |
| 29,504 | 30,271 | 33,618 | 44 945 | 35,822 | 5,495 | 10,331 | 3,03,0 |
| 3 | *** | 8 | *** | 8 | 419 | 11.0 | |
| 1,024 2,874 505 | 1,221 137 2 604 | 1,258 1,848 478 | 2,596 3,174 273 | 1,281 2,275 162 | "" 326 494 127 | 1,395 632 199 | 1,2 13 c 18,6 3-4 |
| 4,403 | 1,964 | 3,584 | 6,043 | 3,718 | 947 | 2,226 | 36,3 |
| 44 670 48 | 30 1,107 34 | 52 716 146 | 49 1,259 15 | 25 765 28 | 1 288 | 758 14 | 9,1 4,11 |
| 469 1,563 | 757 1,610 | 443 1,618 | 613 1.679 | 734 842 | 97 86 | 219 214 | 4.8 11,5 |
| 2.794 | 3,538 | 2,975 | 3,615 | 2,394 | 466 | 1,209 | 26,2 |
| 35,704 | 35 773 | 40,195 | 54,603 | 41,942 | 6,908 | 13,766 | 3 65,6 |
| 51, 68 | 37,683 | 58,265 | 78,179 | б1,239 | 15,945 | 20,632 | 6,20,8 |
| 63,475 | 37,650 | 2,03,898 | 50,181 | 99,232 | I,367 | -322 | 3,52,0 |

| | | Budget Heads | | | | Direction Division, | Balaghat Division, | Balaghat School Division, |
|----------------|--|---|---------------|--|-------|------------------------|-----------------------|------------------------------|
| | This was the second the second to the second | I | | <u> </u> | | 2 | 3 | 4 |
| · | | | | principal quest and manufacture beautiful beau | | Rs, | Rs. | Rs. |
| | so | UTHERN CIRC | CLE. | | | | | |
| | | REVENUE | | | | | | |
| -Tin | BER AND OTHER PRODUC AGENCY— | E REMOVED PRO | u the Forests | BY GOVERNM | ENT | | | |
| | Timber Firewood and charcoal | •11 | Me | | | 35 | 1,422 428 | 964 |
| G | Bamboos | *** | 101 | | | ••• | 2 | *** |
| | Sandal-wood Grass and other minor pa | roduce | *** | | | *** | 113 | 44 |
| | | | | Total I | | 35 | 1,965 | *** |
| –Ti | MRER AND OTHER PRODUCE PURCHASERS— | REMOVED FROM | THE FORESTS E | Y CONSUMERS | OR | | | |
| A. | Timber | 410 | *** | | | • | 32,692 15,858 | *** |
| G. | | *** | *** | | | *** | 29,764 | P24 |
| d e. | Grazing and fodder grass Other minor produce | *** * | *** | | ** | *** | 32,545 27,005 | *** |
| j. E. | Other items Commutation fees | *15 | *** | | | *** | 4,589 | *** * *** |
| •. | Antition of the second of the | ••• | | Total II | | ., | 1,42,453 | *** |
| .—D | RIFT AND WAIF WOOD AND | CONFISCATED FO | REST PRODUCE | | | | | 4(1 |
| | | | | Total III | ., - | *** | *** | ••• |
| ,R | evenus from Forests no | T MANAGED BY G | Overnment- | | ľ | | | |
| ø, | Duty on foreign timber a | nd other forest pr | oduce " | | } | ••• | | |
| ð. | Revenue from shared and | i private forests | 119 | | 421 | | *** | 111 |
| | | | | Total IV | ** | 614 614 | | |
| | SCELLANEOUS— Fines and forfeitures | | | | | | | |
| ā. ē. | Refunds | *** | *** | | *** | 150 | 494 | 17 |
| Ç, | Other sources | 449 | 411 | | *** | 224 | 8,653 | 512 |
| | | | Carro Tre | Total V | *** | 374 | 9,147 | 529 |
| | | | GRAND I QT | AL KEVENUE | *** | 409 | 1,53,565 | 529 |
| | | Expenditure. | | | | | | |
| | | Consernancy and | | | | | | |
| | her and other production | CH REMOVED FRO | M THE FOREST | 3 BY GOVERN | Ment | | | |
| a. Si | Firewood and charcoal | 678 697 | *** | | *** | 144 | 86 48 | *** |
| Ĝ. | | 4 (F) 843 | 411 | | 770 | bré ses | 110 | 111 |
| • | Grass and other minor p | roduce | *** | | 44 | 654 | 91 | *** |
| | - | | _ | Total A-I | 10 | *** | 225 | 941 |
| ,T | IMBBR AND OTHER PRODUC PURCHASERS— | CE REMOVED PRO | M THE FORESTS | | ts or | 167 | 9,740 | не |
| | . | | | Total A-Ii | 447 | 157 | 9.740 | 414 |
| [<u>[</u> .—] | Driet and walk wood ar | d confiscated F | orest produce | | ** | *** | | *** |
| T . ' | There are a section to a section of | | C | Total A-III | 417 | * • | <i>"</i> | |
| | REVENUE FROM FORESTS I | | | | | | j | |
| а. В. | Duty on foreign timber : Revenue from shared as | ang owner zorest p nd private forest | roduce | | *** | sta igr |)44 184 | *** |
| - | | | | Total A-IV | 310 | *** | 113 | |
| - | | | _ | , I | | | · | |
| | CENT OF LEASED FORESTS A | | Sharrholders | in Forests M. | anag- | 449 | ah s | } ··* |
| | LEUT OF LEASED FORESTS A EQ BY GOVERNMENT— | lad by hents to | Sharrholders | In Forests M. | anag- | *** | è s | |

of the different Divisions during the Forest year 1912-13.—(Contd.)

| Bhandara Division. | Bitaspui Division. | North (handa Division, | South (handa Division. | Nagpur-Wardha Divisions | Raipur Division. | Total. |
|--|--|--|--|---|---|--|
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| R• | RJ. | Ra | Rs. | Rs. | Rs. | Rs |
| 190 87 1 1,242 1,450 | 6,060 59 1,679 7,798 | 9,205 113 29 2,573 | 34,736 8 5 416 35,165 | 516 545 37 4,343 | 2,291 1,743 2,697 1,162 7,893 | 54,385 2,983 2,771 11,528 71,667 |
| 40,581 27,120 10,159 16,445 11,035 | 14,518 5,619 19,468 10,512 7,814 | 26,025 18,358 17,211 64,617 14,193 | 63,9a6 1,749 3,004 49,865 5,669 5,365 | 33,108 24,802 8,458 83,829 16,348 | 14,489 7,529 4,656 30,722 34,156 7,672 | 2,26,319 1,01,055 92,720 2,88,535 1,16,220 |
| 1,05 340 | 58,051 | 1,41,304 | 1,29,558 | 1,66,54 5 | 99,224 | 8,42,475 |
| 9 | 191 | 28 | 91 | ,,, | ,,, | 319 |
| 9 | 191 | 28 | 91 | | *** | 379 |
| a64 198 | 24.9 24.9 | h** | u19 849 | 411 | 443 | 181 101 |
| 117 | *** | | 1 | | 141 | 113 |
| 179 | 6 2 | 20 | 11 | *** 83 2,650 | 797 35 6,529 | 982 812 37,158 |
| 4,193 | 3,442 | 4,762 | 6,193 6,204 | 2,733 | 7,361 | 38,952 |
| 4,372 | 3,450 69,490 | 1,58,034 | 1,71,018 | 1,74,719 | 1,14,478 | 9,53,413 |
| 1,11,171 | -5/1/5 | | | | | |
| ". | *** | 1,328 1 65 9 1,265 | 9,783 5 2 364 | 27 909 5 5,866 | 804 656 1,783 *** | 15,002 1,684 1,855 9 8,850 |
| 490 | white many interpretable which decrease manages. | 1,205 2,668 | 10,154 | 6,807 | 3,646 | 27,490 |
| 4,34 | AND DESCRIPTION OF THE PARTY OF | 8,291 | 5,232 | 7,881 | 5,410 | 42,880 |
| 4,34 | | 8,291 | 5,232 | 7,881 | 5,410 | 43 580 |
| 415 | 240 | 21 | , , | | *** | 3: |
| 10 | # 5 p | 21 | * | *** | cab | |
| | | | *** | [ped | ••• | 499 |
| 448 | 440 | 140 541 | | | | 412 |
| *** | *** | *** | 341 | 114 | P44 | |
| E/ +94 | 951 | *4* | | | | 48. |
| *** | *** | 449 | 74. | 144 | A+8 | |

| | Buag | et Heads. | | | Direction Division. | Baiaghat Division. | Balaghat School Division, |
|--------------------|--|-----------------------|--------------------------------|--------------|---|-----------------------|------------------------------|
| | annesse a marie depositação de persona a converção de aprendicipa de proposition de converção de | 1 | | | 2 | 3 | 4 |
| | | | | | Rs. | Rs. | Rs. |
| | SOUTHERN | CIRCLE(Concld) | | | | | |
| | Cier solt | Jan.—(Concld.) | | | | | |
| | .1 Coreser | vancy and Worls -(Co | oneld) | | | | |
| 'I —Live-S | POCK STOLES, TOOLS AND | PLANT- | | Ì | | | į |
| | hase of cattle | *** | | *** | 207 | 1,001 | 180 |
| | hase or stores, tools and pl | | | | 474 | 972 | 1,172 |
| | | | Total A-VI | | 681 | 2,063 | 1,352 |
| /II.—Ce 11 | UNICATIONS AND BETTADE | .s ~ | | | | | |
| | land bridges . | | | | | 10 637 | 348 |
| b Build c. Othe | ling | 1+, | | •• | 727 | 5,803 1,616 | 2,236 |
| | | | Total A.VII | | 727 | 18,116 | 2,783 |
| | | n nitametan . C Tono | 1010 | - | | - | |
| a. Pen | vi 'lio i indu'intha | KD II LIANSION CLIOKI | .515— | | | 1,163 | |
| \$ C35 | of Po.est Settlements; co | mpensation for land a | nd rights | | \ | 6,028 | *** |
| | kiu∍-plans | 501 170 | | : | 19 | 54 | 111 |
| | nor and planting | *** | | ** | 175 | 149 6,503 | 6 03 |
| | er works | 716 | | | | 2,235 | |
| | | | Total A-VIII | ••• | 194 | 16,137 | 603 |
| X.—Miscli | Laneous- | | • | | | | |
| a. Law | charges | 941 | | ••• | | 89 | 411 |
| o. Other | u charges | *1* | Total A-IX | *** | 133 | 1,774 | 351 |
| | | TOTAL A -CONSERV. | | | 1,902 | 48,144 | 5,089 |
| | | | | - | | | |
| | B.—Es | Tablishwent. | | | | | |
| SALARIE | s | | | | | | |
| | servators | 4++ | | ••• | 20,225 6,749 | 23 507 | 5,284 |
| c. Sulen | rdinate forest and depôt es | tablishments | | *** | 121 | 20,216 | 2417 |
| e. Dept | e establishments station and special allowance | ··· | | •- | 10,165 3,844 | 7,265 | 1,187 2,561 |
| f. Excl | nange compensation allows | nce | PM 4 4 PA = | 441 | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |)II | |
| | | | Total B-I | , . , | 41,104 | 50,988 | 11,449 |
| II.—Travel | ling Allowances- | | | | | | |
| | Bervaters | 141 | | 4. | 2,019 | •# | |
| c. Sub | erior officers ordinate forest and depôt e | stablishments | | 414 | 332 103 | 2,540 3,021 | 486 |
| a. Offic | e establishments | 191 | | *** | 600 | 797 | 1,15 |
| | | | Total B-II | " - | 3 0 5 4 | 6,358 | 2,603 |
| III.—Conti | | | | | • | _ | |
| 8. Can | ionery | •• | | *** | 15 1,043 | 63 2,922 | 20 394 |
| e. Ren | ts, rates and taxes of police guards | 41 | • | 950 | 124 | 75 | 90 |
| e, Offi | rial postage | • | • | *** | 812 | 826 | 50 |
| f. Sun | dries "" | ** | · Total B-III | *** | 1,069 3,063 | 3,08g | 756 |
| | | Temir P | io di 1900 i Establishments | ١٠٠٠ | | 5,969 | 1,510 |
| | | d lated total of | • | *** | 47 221 | 69,315 | 15,561 |
| | * | | rflus or Deficit | - " | 49,123 | 1,11,459 | 20,650 |
| | | ລູນ | ヘッシリン リア アマン・アップ | fer | -48,714 | 42,ta6 | ~~20,121 |

| Bh and ara Division | Bilaspur Division. | North Chanda Division, | South Chauda Division. | Nagput-Wardha Division, | Raipur Division. | Total. |
|------------------------|------------------------|---------------------------------------|---------------------------|----------------------------|---------------------|--------------------------|
| 5 | 6 | 7 | 8 | 9 | 10 | II |
| Rs. | Rs | Rs. | Rs . | Rs. | Rs. | Ra. |
| | | | | | | |
| 580 418 | 597 500 | 1,029 307 | 25 1,773 851 | 391 1,280 | 1,026 1,634 | 2, 6,87 7,60 |
| 1,007 | 1,097 | 1,329 | 2,649 | 1,671 | 2,660 | 14,500 |
| | | | | | | |
| 2,137 4,336 | 5,140 3,630 66g | 5,762 2,747 | 4,541 3,925 | 3,613 4,833 | 6,210 4,747 | 38,388 32,317 |
| 3,809 | 9:439 | 9,950 | 3,259 11,725 | 9,746 | 2,303 13,260 | 15,320 86,028 |
| | | | | | | |
| 331 | 125 | a 739 | 1,340 | 1,644 | 971 25 | 8,315 6,053 |
| | 364 | ** ** 118 | б23 | 7 274 | 180 | 1,63 |
| 18 4,810 | 56 4,573 148 | 50 11,457 1,597 | 668 7,636 3,824 | 164 4,111 469 | 8,959 364 | 1,88; 48,054 8,816 |
| 5,332 | 5,266 | 15,961 | 14,091 | 6,669 | 10,499 | 74,752 |
| | | | | | | |
| 5 1,141 | 3 460 | 3,478 | 1,263 | 319 1,612 | 46 1,520 | 46. |
| 7,146 | 463 | 3,480 | 1,263 | 1,931 | 1,566 | 12,19 |
| 22,659 | 21 522 | 41,700 | 45,114 | 34.705 | 37,041 | 2,57,87 |
| • | | į | | | | |
| 141 | | ••• • 0a9 | | | | 20,22 99,36 |
| 5,056 12,449 | 8,450 10,568 | 9,808 22,623 | 9, 8 50 14,351 | 12,453 18,883 | 18,210 19,253 | 1,20,88 |
| 4,459 | 4,570 | 6,843 515 18 | 5,943 344 | 5,757 | 7,349 | 53,53 7,26 |
| 21,964 | 23,598 | 39,807 | 30,488 | 37,104 | 44,812 | 3,01,31 |
| | -3,390 | 39,007 | 34,400 | 3/,144 | 945024 | 3,04,3 |
| .,, | u. | ni . | 71.0 | | | 2,01 |
| 1,372 1,881 | 1,58 5 1,923 | 2,57 5 2,59 1 838 | 2,394 2,293 548 | 1,910 2,304 | 3,481 2,183 | 16, 67 18,29 |
| 312 | 263 | | | 412 | 572 | 4,45 |
| 3,555 | 3,771 | 6,004 | 5,235 | 4,626 | 6,236 | 41,4 |
| 28 | 32 876 | 67 | 58 1,363 | 41 | 50 | 3' 13,3 |
| 86o 93 | 374 | 1,889 30 | 1,353 | 1,726 110 | 2,108 | 1,0 |
| 356 746 | 466 1,149 | 957 1,772 | 735 2,822 | 530 1,095 | . 719 1,771 | ಕ್ಕ.ಇ 1235 |
| 2,083 | 2,897 | 4,015 | 5,048 | 3,502 | 4,773 | 32,8 |
| 27,612 | 30,266 | 49,826 | 40,771 | 45,232 | 55,821 | 3,75,6 |
| 50,271 | \$1,7 ⁸ 8 | 91,526 | 85,885 | 79,937 | 92,862 | 5 ,33,5 |
| ნიკეთი | 17,702 | 66,508 | 85,133 | 94,782 | 21,616 | 3,19,9 |

| | | Budget Heads | | | | Direction Division, | Akola Division. | Amr toti Division |
|---|---|------------------------|-------------|-------------|-----------|------------------------|--------------------|--|
| | Property Synthyladerically subprincing a parametric businessession. | 1 | | | _ | 2 | 3 | 4 |
| *************************************** | | | | | Ť | Rs | Rs | Rs |
| | В | ERAR CIRCLE | | | | | | |
| | | Revenue | | | | | | |
| | FR AND OTHER PRODUCT | REMOVED PROM TH | e Forests | BY GOVERNA | ENT | | | |
| | Cimber | • | ** | | | 191 | 672 2,586 | 5 <u>2</u> 2,440 |
| o. B | ire wood and charcoal | • | *** | | • • | ••• | 602 | 180 |
| | Sundal-wood Srass and other minor pro | duce | *** | | ** | | 1,185 | 286 |
| | | | | Total I | | • | 5,045 | 2,958 |
| | SEP AND OTHER PRODUCE PURCHASERS | REMOVED FROM THE | FORESTS BY | Consumir | ន ពន | | | |
| a. 1 | Fimber | •• | 41 | | | | 7,376 | 4,207 11,068 |
| | irewood and charcoal Imboos | *** | *** | | ••• | • | 17 411 66 | 1 |
| 2 (| Grizing and fodder grass | • | *** | | | • | 78,705 | 1,04,05° 11,309 |
| | Other minor produce Other items | *** | 460 894 | | ••• | ** | 4,570 | ** |
| | Commutation fees | Det 6 | *** | | | | *** | |
| | | | | Total II | | | 1,08,128 | 1,30,637 |
| [Dri | ONA GOOW DIL V GAL TH | Course TTD Forest | PRODUCE | | | *** | Ω | 17 |
| | | | | Total III | . [| 5 % f | 2 | 17 |
| 7RE1 | VENUE TROM FOLESIS NO | MANAGED BY GOVERN | MEHT- | | | | | |
| a i | Duty on foreign timber an | d other forest produce | | | | •• | *** | *** |
| <i>3</i> I | Revenue from shared and | private forest | *** | | • | | | **** ********************************* |
| Mre/ | CELLANEOUS- | | | Total IV | ••• | *** | | |
| | Fines and forfeitures | | | | | | 237 | 99 |
| <i>b</i> [| Refunds | *** | *** | | *** | 12 | 50 | 25 5,217 |
| # (| Other sources | *** | *11 | | | 1,516 | 5,243 | |
| | | | | Total V | •• | 1,528 | 5 530 | 1,38,953 |
| | | • | BRAND TOTAL | . REVENUE | '*' | t,528 | 1,18,705 | . 10-12-12-12-12-12-12-12-12-12-12-12-12-12- |
| | AC | onservancy and Work | is. | | | | | |
| | er and other produc Agency— | e removed prom ti | E FORESTS | by Govern | MBNT | | | |
| a. ' | Timber Fuewood and charcoal | *** | *** | | | ••• | 944 | " 533 |
| c, I | Bamboos | 41+ | 406 | | *** | ** | 133 | |
| | Sandal-wood Grass and other minor pro | duce | *** | | 11 177 | *** | 786 | 17 |
| | • | | | Total A-I | *** | *** | 919 | 593 |
| .—Trn | BER AND OTHER PRODU PURCHASERS. | CE REMOVED' FROM T | HE FORESTS | BY CONSUME | ks or | **1 | 6,234 | 10,570 |
| ~ | e unungans, | | | Total A-II | | | 6,234 | 10,576 |
| I —Dr | nat vad mair mood ynd | CONFISCATED FOREST | PRODUCE | | 444 | \$54 | * | 294 |
| | | | | Total A-III | 444 | *1 | | *** |
| V,Re | evenue from Forests no | t managed by Gover | nment- | | | | • | . |
| a. b | Duty on foreign timber a Revenue from shared and | nd other forest produc | ė | | 411 | | 494 The | 2 889 889 |
| ٧ | | - Europe durings | *** | Total A-IV | ** | | **** | |
| r.—Re | nt of Leased Forest Managed by Coverne | | o sharehou | • | | | 494 | 29. |
| | · Caratan and and Arichard and an annian and an annian and an annian and an annian and an annian and an an annian an an an annian an an an an an an an an an an an an a | | • | | | | <u> </u> | ************************************** |
| | | | | Total A-V | 40 | 1** | 200 | 784 |

| Betul Division. | Buldana Division | Melghat Division, | Nimar Division | Yeotmal Division | Total | Grand Total Centr Provinces and Bera |
|---|--|---|--|---|--|--|
| 5 | 6 | 7 | 8 | 9 | 10 | rī |
| Rs. | Rs. | Rs. | Rs. | Rg | Rs. | Rs |
| 2,376 10 3 | 635 759 | 1 601 207 | 2,123 558 2 | 4,538 6,127 16 | 11,997 12 687 803 | 81,462 21,842 4,314 |
| 352 | 1,897 | 1 640 | 45 908 | 9,973 | 61,231 | 1 54,212 |
| 2 741 | 3,281 | 3.448 | 48,591 | 20,654 | 86,718 | 2 61,830 |
| 31 970 4.046 19,888 59 408 20,736 | 11,405 11,914 3,160 69 698 2,126 | 50,234 7,659 20,164 23,859 16,061 | 54,944 20,636 10,647 1,1729 11,179 | 17,119 21,106 1 702 1,75,544 12 194 | 1,86,214 93,839 64,618 6,28,565 78,175 | 5,46,883 2,42,465 2,08,098 14,02,047 2,50,455 |
| 3,208 | 08,303 | - 04 056 | 1,160 | 2,27,665 | 4 368 | 73,259 27 '3,206 |
| 26 | 152 | 1 35,076 | 2,15,864 | 2,27,005 | 10,55,789 2,431 | 3,319 |
| 26 | 152 | | 175 | 2,059 | 2,431 | 3,319 |
| 892 848 | | "" 651 651 | 410 | *** | 651 651 | 651 651 |
| "." 8 8,387 | 61 2 7,270 | 9 38ti | 1,247 9 9,383 | 135 501 6,911 | 1,779 616 47,638 | 4,299 3,970 1,24,613 |
| 8,395 | 7,333 | 3,820 | 10,639 | 7,447 | 50,033 | 1,32,882 |
| 1,50,378 | 1,09,069 | 1,43,893 | 2,75,269 | 2,57,825 | 11,95,622 | 31,21,888 |
| 411 | 611 111 | 273 168 | 6 8 | 46 465 | 706 236 193 | 18,344 6,725 2,4 2 6 |
| 9 83 1,394 | 1,415 | 1,214 | 43-397 | 2,710 | 50,505 | 1,40,813 |
| 8,573 | 4:547 | 1,655 2,201 | 43,465 11,145 | 2,199 7,613 | 51,640 50,883 | 1,41,286 |
| 8,573 | 4,547 | 2,201 | 11,145 | 7,613 | 50,883 | 1,41,286 |
| | 410 | 201 | 1., | II | 11 | 77 |
| # 64 | | + t | Pd-P | 11 | ŢŢ. | 77 |
| *** | ************************************** | - 4-15 h-15 | 434 | 110 | ## ## ## ## ## ## ## ## ## ## ## ## ## | A Section of the sect |
| 4 Tk | | ٠, ا | 448 | * * | e94 | .,, |
|)44 *********************************** | *** | PAQ. | ₹\$ \$ | ksy | All q | |
| 114 | 110- | *** | 419 | 411 | 511 | pha |

| | | Budget Herds | | ļ | Direction Division. | Akola Division. | Amraoti Division. |
|-----------------------|---|----------------------|------------------------------|------------|------------------------|--------------------|----------------------|
| | | I | ner steen top specialization | | | 1 | 4 |
| | | | - | | tun ukungan sahi | | |
| | | | | | Rs | Rs. | Rs. |
| | BER | AR CIRCLE -(Concld |) | | | | |
| | A,-Conse | vancy and Works -(C | oncld) | | | | |
| I.—Live-st | rock, Scores, Tools | AND PLINT - | | | | | |
| | hase of cattle | ,, | 1 | ••• ••• | 840 | • • | 111 |
| | thuse of -tores, tools | and plant | | •• | 122 | | 330 |
| | | | Total | A-V1 | 9,62 | 865 | 330 |
| IIСоим | unications and Bu | IIDINGS- | | | | | |
| a. Road | ds and bridges | •• | | ,,, | *** | 5,919 | 1,517 |
| b. Build | | 140 | 415 415 | *** | 14 | 2,894 1,642 | 3,422 326 |
| | | | Total | A-VII | 14 | 10455 | 5,265 |
| III.—Orga | ANIZATION, IMPPOVE | MENT AND EXTENSION O | FORESTS- | | | | |
| | narcation | | | 19 | <u></u> | 755 | 1,077 |
| b. Com | ipensation for land a vevs | nd rights | *** | ., | 308 | ••• | ••• |
| d, Wor | rking-plans | *** | *** | *** | | 16 | *** |
| f. Prot | ing and planting ection from fire | ** *** | 144 bre | ** | ' | 1,427 | 312 1,066 |
| g. Oth | er work. | | 949 mar 3 | *** | | 2,486 | 109 |
| | | | Total | a-viii . | 500 | 5,639 | 2,564 |
| Y _Miscr | LLANCOUS- | | | | | | |
| a, Law | v charges | *** | es t | | ļ 1 | | 43 |
| b. Oth | er charges | • | *4* | 11 | | | 1,066 |
| | | m A | | IA-IX | | | 1,119 |
| | | 1014. A —Co | HERRI INCY AND ' | MOBK? " | 1 28 | 5 24,789 | 20,441 |
| | | B.—ESTABLISHMENTS. | | | | | |
| .—Salarie | | | | | | | |
| 6. Sup | nservators perim officers | *** | *** | • | 1 .,0. | 5 | 5,586 |
| c. Sub | bordmate forest and ace establishments | depôt establishments | 843 | 41 | 3,25 | | 8,667 |
| e, Dep | outation and special . ous of half month's p | allo wances | *11 | | ·\ | 8 -7 | 4,643 |
| f. Bon | ius or mat month s p | ay | 411 TV | otal B-l | | 10 | |
| | | • | - 1 | cai b-i ., | 31,21 | 3 19,355 | x8,896 |
| | LLING ALLOWANCES | - | | | | | |
| b, Sup | nservalore perior officers | *** | *** | ** | 1 -1/- | 1,181 | 1,194 |
| c. Sub | on dinate forest and dice establishments | depôt establishments | 5 p.s | | . 13 | 7 1,901 | 1,444 |
| | | *** | | tal B-II | | | 321 |
| 117 <i>- P</i> lasses | | | | | -144 | 7 | 2,959 |
| | ingencies— ationery | | | | | | |
| b, Car | rriage of tents and r | ecords | Ded bet | • | "] 40 1,14 | | 33 60s |
| d. Pa | nts, rates and taxes y of police guards | 69+ 881 | 141 E31 | | | 359 | 148 |
| e, Offi | icial postage | #47 | 131 | | . 83 | | 416 |
| A. 20.071 | | 444 | Tot | al B-III . | 1,29 | | 589 |
| | • | Tor | AL B.—ESTABLIS | | | | 1,786 |
| | 1 | | l of expend: | | 37,30 | | 23,641 |
| | | மாகை ஒரு கிறித்தி | Surplus of) | Manage | 30,04 | | 44,08a 94,871 |
| | | | | | | us ; DN:744 | t As Sein |

of the different Divisions during the Forest year 1912-13.—(Concld.)

| Betul Division. | Buldana Division, | Melghai Division. | Nimar Division. | Ycotmal Division | Total. | Grand Total Centra Provinces and Bera |
|---|--|--|--|---|--|---|
| • | 6 | 7 | \$ | 9 | 10 | 11 |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| 716 505 1,221 | 330 | 1,376 395 1,771 | 140 1,044 1,140 2,324 | 851 509 1,360 | 140 4,827 4,196 9,163 | 221 16,299 17,230 |
| | | | | | | |
| 3,325 2,262 843 | 9,112 810 1,688 | 3,920 3,849 561 | 5,732 8,042 5,327 | 2,399 10,149 4,223 | 31,924 31,428 14,624 | 97,298 85,77 7 3 6,2 02 |
| 6,430 | 11,610 | 8,330 | 19,101 | 16,771 | 77,976 | 2,19,277 |
| 1,542 149 51 6 7,168 1,686 | 692 1,552 955 1,004 1,853 1,884 | 462 13,996 491 738 127 7,167 5,009 | 1,778 78 95 11,726 1,891 | 671• 50 55 674 3,284 3,893 | 6,977 15,707 821 1,842 3,154 33,691 16,958 | 27,585 42,120 863 3,479 6,284 1,14,773 36,408 |
| 10,602 | 7,950 | 27,990 | 15,569 | 8,627 | 79,150 | 2,27,512 |
| 1,054 | 985 | 15134 | 351 1,313 | 85 1,433 | 489 7,773 | 1,158 25,242 |
| 29,274 | 985 26,837 | 43,081 | 1,664 93,268 | 38,099 | 8,252 2,77,075 | 7,90,115 |
| 11,169 23,931 5,670 283 49 | 8,411 13,425 5,117 | 21,627 20,501 5,700 1,155 6 | 13,408 32,404 8,558 3 | 15,056 24,161 6,165 18 | 18,366 81,173 1,35,547 49,740 1,787 62 | 56,475 2,80,080 3,93,350 1,50,052 10,952 |
| 41,102 | 26,953 | 49,389 | 54:3 ⁶ 7 | 45,400 | 2,86,675 | 8,91,096 |
| 1,257 4,228 413 | 1,051 2,404 433 | 1,988 2,867 495 | 1,831 6,657 1,249 | 2.787 2.938 585 | 1,722 11,299 22,576 4:397 | 4,962 40,990 59,49 6 12,302 |
| 5,898 | 3,898 | 5,350 | 9,737 | 6,310 | 39,994 | 1,17,750 |
| 63 1,265 68 | \$5 720 336 | 108 1,323 148 | 1,850 1,850 52 654 | 40 1,243 | 993 9,017 1,111 | 1,797 31,576 2,686 |
| 543 1,141 3,075 | 776 1,594 3,481 | 895 826 | 952 | 778 | 4,676 8,876 | 14,92; 32,79 |
| 50,075 | 34,332 | 2,700 57,439 | 3,537 * 67,741 | 3,470 55,180 | 24,673 3 51,342 | 10,92,61 |
| 79-349 | 16,169 | 1,00,520 | 1,61,009 | 93,279 | 6,28,417 | 18,82,73 |
| 71,029 | 47,900 | 43,375 | 1,14,260 | 1,64,546 | 5,67,205 | +12,39,15 |

FOREST DEPARTMENT OF THE

Account Current for the

RECEIPTS.

| | | | | Amount. | Amount. |
|---|--------------------|----------------------|------|----------------|--|
| | | | | Rs. a. p. | Rs a, p. |
| CASH BALANCE | ••• | *** | | | 372 O O |
| VIII.—ASSESSED TAXES | *** | ., | | | |
| Income Tax-Deductions from salaries | *** | *** | | 1 | 3,085 7 10 |
| REVENUE DURING THE FOREST YEAR 1912-13. | 411 | | | *** | 9,72,852 13 5 |
| XII —INTEREST | *** | 261 | | | 248 6 8 |
| CITY (ITA) | •1• | ., | | | 14 2 8 |
| OTHER CIVIL HEAD S. B Deposits—Bank Accounts—General Provident Fr | | | | | 3,919 5 0 |
| | | | 1 | | 44 0 0 |
| Personal Deposits-Lady Minto's Nursing Association | rupu | ••• | 1 | *** | 44 0 0 |
| Forest deposits | *** | | • | ••• | 688 8 o |
| ADVANCES RECOVERABLE | *** | ** | | | |
| House Building Advances | 111 | 4+ | | .,. | 137 8 o |
| Forest Advances Objection Book Advances | 44.5 | 40 | | 495 | 4,14,233 8 11 6,87 8 1 3 |
| Hutting Advances on account of Plague. | *** | •• | •• | *** | |
| Motor car Advances | 100 | •• | " | *** | 1,333 б о |
| SUSPENSE ACCOUNT | 11) | •1 | | | 1 0 0 |
| CASII REMITTANCES—LOCAL—FOREST REMITT | ANCES.— | | 1 | | |
| Discount on sale of Forest Stamps | 444 | 91 | | | 2,554 o g |
| Forest cheques dTAWB | 100 | | •• | | 6,00,648 4 5 |
| Revenue Remittances written back Inter Divisional Transfers | 404 | | ** | 417 | 72,175 11 <i>7</i> 4,768 10 2 |
| P W. Remittances, Cash Remittances III, Other Remi | ttances B. Iten | ns adjustable by Civ | i). | | 0 10 0 |
| | | Total | _ | 434 | 46 |
| EXCHANGE ACCOUNT WITH OTHER GOVERNM | INTS | | - | | |
| Account between India and Central Provinces | | _ | | | |
| III -Items adjustable by India Forest Officers Pro | vident Funds | | | *** | 2,977 8 o |
| General Provident Funds Imperial | 444 | • | | | 5,301 15 3 |
| III.—Items adjustable by India—Miscellaneous IV.—Items adjustable by C. P.—Miscellaneous | 6#0 111 | | | *** *** | 1 7 3 2,255 13 5 |
| Account between Central Provinces and Bengal | | | | | |
| 111 —Items adjustable by Central Provinces | *** | | | *** | 114 |
| IV.—Items adjustable by Bengal | ••• | • | ••• | 1** | 944 |
| Account between Central Provinces and Bombay III. — Items adjustable by Central Provinces — Mis- | tes cella neons | | | *** | 2,843 I б |
| IV.—Items adjustable by——— | *** | | | 160 84 * | a ₁ 043 x 0 |
| Account between—and— | *** | | | tu . | 441 |
| Account between Central Provinces and Military Supp | ly Account | | | 374 | |
| III.—Items adjustable by Central Provinces IV.—Items adjustable by Military—Miscellaneou | | | *** | *** | 1,183 5 10 2,300 0 0 |
| Account between Central Provinces | | | - | - | 2,500 0 |
| III —Items adjustable by Central Provinces | / | | :: | *** | *** |
| IV.—Items adjustable by Bombay—Miscellaneon | 18 ,., | | *** | + 1 + | 66 15 6 |
| | | Total | ••• | *** | *** 1 |
| NTER-DEPARTMENTAL TRANSFERS— | | | ľ | | Particular Services |
| P. W. Department, Ordinary Branches | ķ1. | | *** | 444 | 1 |
| Railway Branches | *** | | *** | 111 | *** |
| Mintery , Northern Choice | 414 | | har | *** | 92d |
| Western " | e** | | 402 | 416 | 4 |
| genderabad Division | 400 | | ***) | (144 (144 | 194 440 |
| Military Supply | 944 | • | 424 | 1 1 | |
| Fost and Telegraph Department Marine Department | 149 | | 424 | 150 | 695 6 2 |
| • | | Total | 244 | 157 | And the second second second second second |
| | | GRAND TOTAL | 1 | | 444 |
| ŧ | | WEST A CLUT | *** | 499 | 21,01,581 1 7 |

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[PRESCRIBED].

NORTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1912-13.

PAYMENTS.

| | | | Amount | Amount. |
|---|-----------------------|------------|----------|--|
| 6 | |]~ | Rs a. p. | R ₉ . a. |
| .—REFUNDS AND DRAWBACKS | *** | | | 511 5 |
| Assessed Taxes | **1 | | | 2 8 |
| XPENDITURE DURING THE FOREST YEAR 1912- | 13 | | | 6,20,812 8 |
| THER CIVIL HEADS | ••• | | | |
| S. B Deposits-Bank Accounts General Provident Fun | · · | | [| 14 9 363 2 |
| OREST DEPOSITS | 111 | | | 4m0 _ |
| DVANCES RECOVERABLE | | •1 | *** | 6 78 o |
| House Building Advances | *** | *** | *** | *** |
| Forest Advances | •• | ** | *** | 300 0 |
| | 111 | | • | 4,1 9,606 5 |
| Objection Book Advances | qui | ••• | •• | 8,128 12 |
| Hutting Advances on account of Plague | ••• | " | ••• | 10 0 |
| USPENSE ACCOUNT | ••• | • 3 • | ••• | 28 o |
| ASH REMITTANCES- LOCAL-FOREST REMITTA | NCES | | • | |
| Cash Remittances P W. Remittances A by P W. D. | *** | | | 885 4 |
| Cash Remittances ,, R by Civil | *** | | | 4 10 |
| Remittances to Treasuries | *** | | | |
| Unpaid cheques written back | м | | | |
| Inter-Divisional Transfers | 114 | | *** | 227 10 |
| Forest stamps adjusted | | " | *** | 1,996 4 |
| Z di did di ding più di di | | | | 26,501 14 |
| | Total | | *** | |
| XCHANGE ACCOUNT WITH OTHER GOVERNME | nts — | | | |
| Account between India and Central Provinces III - Items adjustable by India | *** | ••• | } | |
| IV.—Items adjustable by Central Provinces | *** | | ••• | 350 0 |
| Account between Central Provinces and Burma | *** | 439 | | <i>7</i> 5 0 |
| III.—Items adjustable by Central Provinces IV.—Items adjustable by Burma | *** | } |))) | *** |
| Account between Central Provinces and U P. of Agra | ond Oudh | "] | *** | 60c a |
| III.—Items adjustable by Central Provinces | end Oden | *** | *** | 12056 11 |
| IV Items adjustable by | *** | ••• | | 13,957 11 |
| Account between Central Provinces and Military Supply 1II —Items adjustable by Central Provinces | 7 ••• | , | | |
| IV —I tems adjustable by Military Miscellaneous Pa | yments | *** | | 2,300 O |
| Account between Central Provinces and Bombay | *** | 54. | *** | -1,5-0 |
| III.—Items adjustable by Central Provinces IV.—Items adjustable by Bombay | 411 | *** | | 111 |
| Account between Central Provinces and Military West | | | 141 | 80,743 15 |
| by Military-Miscellaneous | Die Ottote Aprilia al | le seguiei | ••• | 3,030 o |
| | Total | | | |
| NTER-DEPARTMENTAL TRANSFERS— | | | | 44. |
| P. W. Department, Ordinary Branches | ∂6 1 | | *** | |
| Military , Railway Branches Military , Northern Circle | 54 1 | ••• | *** | 196 *3 |
| , Eastern , | use eis | *** | ars. | **4 |
| ,, ,, Western ,, Secunderabad Division | · , | 451 | | ••• |
| Burma Division | 467 849 | *** | *4* | *** |
| " " Military Supply | 416 | | *** | *** |
| Post and Telegraph Department Marine Department | *** | ••• | 91.9 | * * |
| and the role of the all and all and all all all all all all all all all al | Pris | ₩ | NA 1 | 2/1 |
| | Total | | 67.9 | 434 |
| ash balance | *** | | 6 % b | |
| | GRAND TOTAL | | | بسيست وسين والمنافق و |
| | | *1 | 104 | 21,01,581 1 |

FOREST DEPARTMENT OF THE

Account Current for the

RECEIPTS.

| | | | | Amount. | Amount. |
|---|-------------------|------------|-----|---|----------------------------|
| | | | - | Rs. 2. p. | Rs. a. p. |
| ash balance | , | | | | |
| III.—ASSESSED TAXES | •• | | | | *** |
| Income Tax—Deductions from Salaries | | | 1 | | 3,049 8 3 |
| | | • | " | } | 9,53,413 0 7 |
| EVENUE DURING THE MONTH | | 1 | " | *** | 1,023 5 0 |
| II—INTEREST | | | " | | -,0-0 0 - |
| THER CIVIL HEADS(As detailed below) | | | | 1 | C-D- 44 A |
| S. B - Deposits - Bank Accounts - General Provident Fo | and Provincial | | | . [| 6,280 15 0 |
| XVI-B Law and Justice, Jails, Jul Manufactures, Cen | tral Jail | | | | 28 10 0 |
| PERSONAL DEPOSITS-Lady Minto's Nursing Asso | ciation Fund | | | | 61 o o |
| X XXI —Givil Works, Provincial Buildings and Roads | | | | 141 | 9 ,225 8 0 |
| FOREST DEPOSITS | | | | 410 | 515 2 6 |
| ADVANCES RECOVERABLE— | | | 1 | į | |
| ** ** ** | | | | | 761 4 0 |
| Forest Advances | ••• | | ::[| *** | 7,56,458 12 3 5,637 8 0 |
| Objection Book Advances Hutting Advances on account of Plague | ##k | | ••• | n | 180 0 0 |
| Taxes from Municipality | 414 | | | 414 614 | 38 11 4 |
| WIGDENOR A GOVERN | | | | | ••• |
| Suspense account Cabh remittances—local—forest remitt | ANCES.— | | " | 9+1 | -" |
| | | | | | 6,03,569 12 10 |
| Forest cheques drawn Revenue Remittences written back | *** | | *** | 44 4 444 | 13,333 1 8 |
| Inter-Divisional Transfers | ** | | *** | 414 | 4,833 12 5 2,824 11 6 |
| Discount on Forest Stamps P. W. Department Remittances, (A) Items adjustable ! | by Public Works I | Department | *** | **1 | -335 8 0 |
| , (B) , n | Civil | - | | 417 | 184 3 5 |
| | | Total | | 144 | ••• |
| EXCHANGE ACCOUNT WITH OTHER GOVERNME | NTS | | - | والانتجاري ومرد المستحدد والمستحد | |
| | | | | | 110 |
| Account between India and Central Provinces III.—Items adjustable by India (General Provident (Forest Officers' Pro | | | *** | 7,711 7 0 1,170 0 0 | 8,881 7 0 |
| IV.—Items adjustable by Central Provinces Account between Central Provinces and Bengal | *** | | | *** | 7,815 6 5 |
| III.—Items adjustable by Central Provinces | 416 | | | *** | |
| IV.—Items adjustable by Bengal | | | | 499 | |
| Account between—and— III.—Items adjustable by Central Provinces | *** | | *** | 41+ 80+ | |
| IV.—Items adjustable by— | P84 | | | *** | *** |
| Account between ——and— Account between Central Provinces and Military | 416 | | *** | 201 216 | |
| IIIItems adjustable by Military Supply Account | | | | •• | *** *** |
| Items adjustable by Civil IV.—Items adjustable by— | *14 *14 | | *** | 414 | 1,352 2 (|
| Account between Central Provinces and- | traf | | *** | *** | 944 Yes |
| III.—Items adjustable by Central Provinces IV.—Items adjustable by— | *** | | 444 | *** | *** |
| | | Total | | B + # | |
| INTER-DEPARTMENTAL TRANSFERS— | | | - | Andrew Control of the State of | |
| P. W. Department Ordinary Branches | *** | | [| *** | , |
| Railway Branches | ** | | *** | * * | 10h |
| Military , Northern Circle , Eastern , | 44 | | *** | 141 | |
| , Western , | *** | | } | dya | |
| n Seconderabad Division Burma Division | ads pre | | ,,, | . 49K | hq0 |
| Milkary Supply | Pro | | .,, | 111 | , " |
| Post and Telegraph Department | *** | | *** | 679 1 7 21 8 10 5 4 9 | 705 15 |
| • , | | Total | 141 | 3 7 9 | |
| | Caran | TOTAL | - 1 | ngaramitangus selimipikanskip ibranistanuski polistaturik HT. | 23,72,838 5 |
| . , | | | *** | | m. 11 / = 1 - 1 - 1 - 1 |

[PRESCRIBED].—(Contd.)

SOUTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1912-13.

PAYMENTS.

| | | | Amount, | Amount. |
|---|----------------------|---------------|--|---------------------|
| | | | Rs. a. p. | Rs a. p. |
| AND DRAWPACKS | 419 | | | 3,992 5 5 |
| -REFUNDS AND DRAWBACKS | 448 | | ••• | б,33,501 <i>9</i> 9 |
| EXPENDITURE DURING THE MONTH | **- | | 1 | |
| OTHER CIVII. HEADS (As detailed below) : | Fund Provincial | ••• | ,, | 494 5 9 |
| S. B Deposits-Bank Accounts-General Provident | 401 | | | 186 8 o |
| POREST DEPOSITS | *** | *** | | *** |
| ADVANCES PECOVERABLE | *10 | | 616 | 1,720 0 0 |
| House Building Advances | •• | ., | *** | 7,45,755 12 0 |
| Forest Advances | *** | , | 441 | 5,587 2 8 |
| Objection Book Advances | *** | | 814 | 89 0 0 |
| Hutting Advances on account of Plague | *** | | *** | |
| SUSPENSE ACCOUNT | | • | | |
| CASH REMITTANCES - LOCAL-FOREST REMI | TTANCES- | | *** | 8,93,210 7 10 |
| Remittances to Treasuries | 764 | *** | | *** |
| Unpaid cheques written back | *** | | • | 9, 697 \$ \$ |
| Inter-Divisional Transfers | 110 | | •• | 9,450 15 4 |
| Cash Remittances III, Other Remittances (A) Item | s adjustable by P. V | V. Department | 444 | 17 9 6 |
| Do. Do. (B) Items | adjustable by Civil | Department | ••• | 44,682 14 3 |
| Forest Straps adjusted | 440 | "- | 141 | |
| | | Total | + 4 [‡] | 244 |
| EXCHANGE ACCOUNTS WITH OTHER GOVE | RNMENTS. | | | |
| Account between India and Central Provinces | *** | •11 | 444 | 2.750 0 0 |
| Iti Items adjustable by India | *** | ••• | 210 | 3173- |
| IV.—Items adjustable by Central Provinces | • • | 1 | *** | 13,320 0 0 |
| Account between Central Provinces and Bengal | #11 | 490 | 116 | 192 |
| 111.—Items adjustable by Central Provinces | *** | *** | 344 | ** |
| IV —Items adjustable by Bengal—Miscellaned | 119 | ••• | *** | 258 1 7 |
| Account between Central Provinces and— | *** | | *** | 100 |
| Account between Central Provinces | *** | | 1=6 | *** |
| III,—Items adjustable by Military—Miscellane | ous Payments | | ** | 2,000 0 0 |
| IV,—Items adjustable by intricary—introduction | | ••• | 104 | 44. |
| Account between Central Provinces and- | | ,,, | 198 | 466 |
| III.—Items adjustable by Central Provinces an | .com | *** | 414 | 860 14 0 |
| IV,—Items adjustable by Bombay—Miscelland | | ••• | *** | 115 |
| Account between Central Provinces and- | *** | *** | ±0} | 1 |
| III Items adjustable by Contral Provinces | ••• | 1 | tof | *** |
| IV.—Items adjustable by— | •• | Total | ###################################### | |
| | | TOTAL | | |
| INTER-DEPARTMENTAL TRANSFERS— | | | | 4.4 |
| P. W. Department, Ordinary Branches Railway Branches | 200 | *** | 4 i | *** |
| Military "Northern Circle | eçá | · | | • |
| P. Dastern | *** | •• [| •• | *** |
| " Secundetabad Division " Barms Division | + + +>+ | 110 494 | | t #b |
| " Military Supply | *** | (m.) 931 | 444 | 200 |
| Post and Telegraph Department Marine Department | *** | 40) | | f+r |
| III HOTON TO THE THE THE THE THE THE THE THE THE THE | | Total | 0.9.5 | 23,68,574 15 |
| Cash Balance | 110 | 110 | | 4,263 6 |
| CRSH DAMMAN | Ge | AND TOTAL | 444 | 23,72,838 5 |

FOREST DEPARTMENT OF THE

Account Current for the

RECEIPTS.

| | | | | Amount, | Amount, |
|---|---------------|-------------------|-------------|--------------|------------------------------------|
| | | | | Rs. a. p. | Rs. a. p. |
| cash balance | ••• | | | ,,, | *** |
| YIII.—ASSESSED TAXES | *** | | | | *** |
| Income Tax—Deductions from salaries | ••• | | | *** | 2,496 10 3 |
| REVENUE DURING THE YEAR | 111 | | | | 11,95,622 6 1 |
| III.—INTEREST | | | | | 330 4 8 |
| | *** | | ļ | | 6,571 2 3 |
| General Provident Fund Provincial | *** | | *** | | 191 |
| OTHER CIVIL HEADS—(As detailed below) - | *** | | " | *** | 12 2 2 |
| XXXI.—Provincial Civil Works. In charge of P W. | Officers. | Rent of Buildings | . | *** | 4,289 7 10 |
| Orest deposits. | *** | | *** | ••• | |
| PERSONAL DEPOSITS-Lady Minto's Nursing Fu | nd Transa | ction | | ••• | 22 10 3 |
| IDVANCES RECOVERABLE | *** | | | 47 21 8 | 119 |
| Hutting Advances | *** | | | 5,72,031 4 3 | 5,78,208 7 9 |
| Forest Advances Objection Book Advances | ## h | | *** | 6,123 7 10 | 37 8 0 |
| SUSPENSE ACCOUNT | | | | | • |
| in at munch trade out t | *** | | - | · | |
| | | | 151 | | والأنافي ومهامع المعامل والمساورين |
| PROVINCIAL ADVANCES AND LOAN ACCOUNT | *** | | *** | | † 111 |
| PAKAVI ADVANCES | | | | P11 | 414 |
| DASH REMITTANCES LOCAL—FOREST REMITTA | NCES. | | ļ | | |
| Forest cheque drawn | *** | | | 5,83,229 1 4 | *** |
| Revenue Remittances written back Inter divisional Transfers | M. | | l | 3,437 0 0 | 989 F89 |
| Discount on sale of Forest Stamps | *** | | *** | 1,603 1 6 | .11 |
| | | Total | | 141 | 5,88,271 2 10 |
| EXCHANGE ACCOUNT WITH OTHER GOVERNMI | ENTS. | | | | |
| Account between India and Central Provinces | 411 | | | ••• | *** |
| III,-Items adjustable by India | 195 | | | 8,330 18 0 | *** |
| IV —Items adjustable by Central Provinces Account between Central Provinces and Bengal | 194 242 | | 111 | 4,276 15 2 | 94P 978 |
| III.—Items adjustable by Central Provinces | 141 | | | 404 | *** |
| IV — Items adjustable by Bengal Account between Central Provinces and Bombay | *** | | *** | 44 | *** |
| III.—Items adjustable by Central Provinces | ••• | | *** | 3,262 14 3 | ••• |
| Account between Central Provinces and— | *** | | *** | #06 #84 | 444 |
| III.—Items adjustable by Central Provinces— | | | | 444 | *** |
| IV.—Items adjustable by— Account between Central Provinces and— | 444 | | 121 | 400 | e3e Vet |
| III.—Items adjustable by Central Provinces | *** | | 5-0 | 441 | *** |
| IV.—Items adjustable by— | 410 | | 101 | nds | 916 |
| | | Total | P 81 | 24 \$ | 15,870 9 5 |
| INTER-DEPARTMENTAL TRANSFERS— | | | | | |
| P. W. Depertment, Ordinary Branches | **1 | | 141 | *15 | #f1 |
| Military , Rallway Branches Northern Command | *** | | 411 | 1+3 | , |
| , Eastern | 984 | | 144 | ••• | ••• |
| Account between Central Provinces and Western (Secundrabad Division | Jirole *** | | g 11 | | 668 |
| Burma Division | *** | | *** | *** | 341 |
| Account between Central Provinces and Military Military Supply Account (III)—Items Adjustable b | y Civil | | est pri | 1 | 411 |
| Telegraph Department | *** | | 956 | ••• | 414 |
| Post Office Department Marine Department | *** | | 40 1 | | 596 244 |
| - | | Total | 80 | | 1,872 3 |
| | | GRAND TOTAL | | | 23,93,604 10 1 |
| | | LTKAND I DTAT. | ** | 419 | * WARDING AN * |

[PRESCRIBED].—(Concld.)

CENTRAL PROVINCES, BERAR CIRCLE.

Forest year 1912-13.

PAYMENTS.

| | | | | Amount | Amount. |
|--|---------------|--------------|-----|---|-----------------|
| | | | | Rs s. p. | Rs. a. p. |
| REFUNDS AND DRAWBACKS | ••• | | | ••• | 253 0 3 |
| EXPENDITURE DURING THE YEAR | 100 | | | 951 | 6,28,416 15 3 |
| THER CIVIL HEADS—(As detailed below) - | | | | *** | *** |
| 32Miscellaneous charges for attending Departments | al Examinatio | n | , | 410 | 46 8 0 |
| General Provident Fund Provincial | *** | | | ••• | 1,482 14 10 |
| FOREST DEPOSITS | *** | | | ••• | 4,131 5 6 |
| PERSONAL DEPOSITS -Lady Minto's Nursing Fund | Transaction | | **- | 949 | *** |
| ADVANCES RECOVERABLE | *** | | | | 114 |
| Forest Advances | 411 | | | 5,51,456 0 10 | 484 |
| Objection Book Advances | 414 | | | 6,542 2 0 | ±n* |
| Hutting Advances | 184 | | | 10 0 0 | 5,58,008 2 10 |
| SUSPENSE ACCOUNT | *** | | | ,.ee | 239 4 6 |
| | | | | | *** |
| PROVINCIAL ADVANCE AND LOAN ACCOUNT | *** | | | ماحيطا تصمدب استنبان <u>سويين</u> ميهيور 110 | 210 |
| Takavi Advances | *** | | ••• | ,,, | 400 |
| CASH REMITTANCES-LOCAL-FOREST REMIT | ANCES. | | | | |
| Remittances to Treasuries Unpaid cheques written back | *** | | | 11,21,575 6 1 500 0 0 | F44 694 |
| Inter Divisional Transfers | *** | | ••• | 4,977 0 0 | 106 |
| Forest Stamps adjusted | 176 | - . • | " - | 23,358 7 9 | |
| | | Total | ''' | | 11,50,410 13 10 |
| EXCHANGE ACCOUNT WITH OTHER GOVERNM | ents | | - 1 | | |
| Account between India and Central Provinces | *** | | ••• | ••• | *** |
| IllItems adjustable by India | • • | | *** | 750 0 0 | *** |
| IV Items adjustable by Central Provinces | *** | | ••• | 40 0 0 | *** |
| Account between Central Provinces and Bengal | *** | | *** | or• | ** ; |
| IIIItems adjustable by Central Provinces | P84 | | ••• | *** | 476 |
| IV.—Items adjustable by Bengal | *** | | | *** | 104 |
| Account between Central Provinces and Bombay | *** | | ••• | *** | jne |
| III.—Items adjustable by Central Provinces | *** | | | 444 | 11.8 |
| IV.—Items adjustable by Bombay | *** | | ••• | 48,635 15 10 | ** |
| Account between Central Provinces and- | 941 | | | *** | tee |
| III Items ajdustable by Central Provinces | *** | | | 198 | *** |
| IV.—Items adjustable by— | | | 1 | ••• | *** |
| | | Total | | | 49,425 15 10 |
| INTREDEPARTMENTAL TRANSFERS— | 431 | | | بالقازما المنشاب ومراجها والمحالة المراجها | |
| P. W. Remittances | | | | 437 | |
| III.—Other Remittances (A) Items adjusted by P. W. | | | • | •17 | 1,189 10 0 |
| P. W. Department, Ordinary Branches Railway Branches | *** | | *** | *** | |
| Military Department, Northern Command | *** | | *** | \$16 | |
| ,, ,, Eastern ,, Western ,, | *** | | | 986 NGA | 4.4 |
| " Secunderabad Division | **> | | , | esse | *** |
| Burma Division Telegraph Department | *** | • | 202 | *** | *** |
| Post Office Department | ** | | ••• | ** | •,• |
| Marme Department | *** | | 444 | 189 | |
| | | Total | 444 | Phy | *** |
| | | GRAND TOTAL | | l . | 23,93,604 10 20 |

Annual Form No. 26.—Revenue received and outstandings on account of Revenue during 1912-13.

| - Divisi | on | Part cu ¹ tre | Out finding at commence- ment of v ar | Value of sales tad other revenue during veat. | 1rt d | Amount realised curn g year. | Balance due to Depart- ment at and of year. | Remarks |
|-----------------|------------------|--|--|--|-----------------|---------------------------------------|--|---|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | Rsap | Ks a. p. | Rs a p | Re. a p | Rs. a. p. | Column 6 racindes the following amounts— |
| NORIHER | i | | nesti s | 7,07 ,r; 9 S | 2,15,107 \$ 4 | 1,93,542 2 9 | 21,705 2 7 | A Amounts deducted 14 cor- iction of entries accounts |
| excluding Due 1 | | | 1,1,46 1 ta | 1,01,732 12 7 | 1,04,579 T I | 1,02,075 15 4 | 2,320 I 9 | B -Amounts written off as |
| duding Dhanw | mphpur (*) (11 - | 444 | 36,, 10 8 3 | £9,944 \$ 8 | 1,30,454 7 41 | 1,01,8,0 8.11 | 24,603 15 0 | А, В, |
| lamoli (c) | _ | | *,940 12 5 | 1,2(775 1 8 | 1,29,7°t 14 I | 1,48,381 11 11 | 1,340 2 2 | Ra a. p. Re. z. p. (a) 170 15 9 73 5 3 |
| ARDSOL TO | [| • | .,,,4 14 10 | | t,61,06 4 9 | 1,6 ,9-5 g 10 | 11 01 088 | (6) 3 0 0 74 1 9 |
| losbangeb d (c | ′ | b 427 | 18:1 12 0 | 1,* ,100 I I | 1,22 g1,2 10 1 | 1,21,6)1 0 0 | 1,221 10 1 | (d) 193 10 0 12 0 0 (d) 18 0 0 3 7 8 |
| Sconi (f) | | | 1,50, 5 4 | T,C 11510 11 2 | 1,65,012 0 (| 1,52,701 6 10 | 2,310 9 8 | (4) 497 10 6 . |
| Ihhindwara (e) | • | •• | | 1,113.0 | 1,031012 0 | | | (f) 25 5 0 21 2 9 (p) 107 11 6 120 8 g |
| | | Total . | 5°,85, 15 0 | 9 72,11 12 9 | 10,28 87,1 11 9 | 9,71,451 7 7 | 54,322 4 . | 1,116 4 9 614 19 9 |
| SOUTHER | n circi f | • | | | | | | |
| Direction | | Miscellaneous | | 407 \$ 3 | 109 \$ 3 | 109 5 3 | ,,, | |
| Balaghat | | Limber , ad other produce . | aj@ 15 0 | f25 616 13 6 | 1,54,917 11 6 | 1,41,445 5 6 | 402 0 0 | Includes Rs. 980-5-8 written of as irrecoverable. |
| Balaghat Forest | School . | Mise Il meons | *** | 528 11 10 | 23, 81 10 | 528 11 10 | | |
| Bhandara | | Tunber and other produce | | £ 11,170 14 11 | r,11,170 14 11 | 3,11,175 14 11 | : | |
| Bilaspur | | D1 • | | 69,778 6 0 | 69,779 6 0 | 69,490 14 9 | 257 7 5 | |
| North Chauda | | Do | . д,782 г 7 | 1,61,548 4 7 | 1,68 730 6 2 | r,58,06x 7 1 | 10,268 15 1 | Includes Rs a8-0-9 written of as irrecoverable. |
| South Chanda | | Do . | 1,549 14 (| 172,180 / 5 | 1,73,739 5 11 | 1,71,219 6 £ | a,519 15 6 | Includes Rs. 200-15 8 written of as irrecoverable. |
| Nagpur-Wardha | a | Do | . 1,207 8 0 | 1,73,833 6 10 | 1,75,035 14 10 | 1,74,719 6 10 | 316 % 0 | |
| Rapur | | Do • | . r,262 13 s | 1,16,941 4 7 | 1,18,217 1 9 | * 1.1 1,436 14 | 3,810 g 5 | Includes Rs. 27-8-3 written o |
| | | [otal | 8,128 4 | 9,64,059 9 11 | 9,72,187 14 2 | 954,582 6 11 | 17,60\$ 7 3 | |
| nr.kar | CIRCLE. | <u> </u> | | - | - | | | • |
| Direction | 186 41 | Sales of timber and other forest produce and miscellaneous sources. | | 1,528 7 0 | 1,528 7 0 | 1,528 7 | ,, | |
| Molghat | ., , | Do | 9,134 2 | 0 1,40,882 14 10 | 1,50,017 • 10 | 1,43,894 8 1 | 0 15,122 8 0 | |
| Amraoti | *** | Do. | 100 0 | 0 1,41,834 7 | 1,41,084 7 4 | 1,38,953 3 | 4 3,981 4 (| • |
| Buldana | | Do. | 24) | 1,0318K 6 | z,09,18x 6 | 1,09,068 16 | \$ 232 12 16 | • |
| Yeomtal | 44 | Do. | 5,818 0 | 2,52,007 8 | 2,57,825 8 1 | 2,57,825 8 | s | |
| Akola | 4.1 | Do. | 220 C | x,18,535 1 | 1,18,755 x 1 | I,18,705 I | 8 800 | |
| Nimer | | Do. | • | 3,75 457 4 | 2,75,457 4 | a,75,26g a | 1 188 n | |
| Bet.1 | . 10 | До | a,156 o | 3 1,48,293 12 | 1,50,459 12 | £,50,777 12 | 4 83 60 | |
| | , | The second secon | 17:438 2 P. 81.440 5 | | | 11,95,622 6 | | ~{ |
| e ! | * | GRAND TOTAL C | E. 81,450 5 | 6 31,33,770 4 4 | 25'12'230 Ó 1 | 31,24,755 4 | 1 Semina 2 | 1 |

*Nors.—There is a difference of Rs. 68 between this figure and that shown in Comptroller's Sammany which is due to a Refund of Rs. 68 charged in the Treasury sections, Raigur, and Less adjusted by the Comptroller, Central Provinces, wide his Objection Statement to the accounts of the Raigur Division for March Snal.

FORM NO. 27.—[PRESCRIBED].—Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1912-13.

| | | Department Deb | tor. | Do | p irtm ent Credit | or. | Baland | e due. | i |
|-----------------------------|----------------------------------|---|----------------------|------------------------------|--------------------------------------|--------------------------------|---------------------------------|---------------------------------|-----------------------------|
| Division | At com- mencement of year. | Recoveries in cash and value of suppies and with done during the year | At close of year. | At commence- ment of year | Payments made during the year. | At close of year. | Fo Department (Outstanding). | By Nevartment (Liabilities). | Remarks, |
| 1 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Rs. a. p | Rs. 2, p. | Rs. a p. | Rs. a. p | Rs. a. p. | R4. a. p. | Rs. a. p. | Rs. a. p | |
| NORTHERN (IRCL) | ļ | \$2,68 ₀ 12 11 | 52 685 12 11 | 762 7 6 | 53,368 0 7 | 54,130 8 1 | 1,444 (I S | ••• | |
| loshangab id | | 81041 6 9 | 8 3,04 1 6 9 | 9,987 13 10 | 80,464 0 10 | 90,449 14 8 | 7,408 7 21 | | |
| ahbulpore | | 39,416 7 2 | 39,446 7 2 | 552 10 4 | 39,274 5 7 | 39 827 0 11 | 380 9 9 (a) | | |
| Tarsinghpur . | | 10,5%0 5 5 | 10,580 5 5 | 856 9 11 | 10,662 2 1 | 11,518 12 0 | 939 8 7 (8) | | |
| 51.081 | | 46 441 11 0 | 46,441 11 0 | 1,249 13 2 | 46, ⁹ 31 12 7 | 48,081 g | 1,639 14 9 | ••• | |
| Direction | - | 7,823 to 6 | 3,823 to 6 | 22 15 4 | 3,079 7 3 | 4,001 6 7 | 177 13 1 | 8+1 | |
| Chhindwar i . | .] | 38,494 15 9 | 39,494 IS 9 | 1,622 15 10 | 39,805 4 1 | 41,431 3 11 | 2,935 4 2 | | |
| hauger | | \$1081 0 8 | 51,081 o 8 | 1.153 12 9 | 51,441 14 7 | \$3,594 ZI O | 1,514 10 4 | 140 | : |
| Handla . | | 51875 13 S | 53,83\$ 13 5 | 3,388 5 11 | 62,946 9 3 | 66,774 15 2 | *12,499 I 9(c) | | *On the gret Ma 1913. |
| North Mandia . | | 17,550 1 7 | 17.560 1 7 | | 11 886 g 7 | 11,886 g 7 | -5,673 8 o(d) | | Due to recoveries |
| South Mandia . | - | 17 242 3 9 | 17,242 3 9 | *** | 18,946 1 11 | 18,946 1 11 | 1,703 14 2 (đ) | ••• | made from Mandia Davisio |
| I otal | | 4,11,273 8 11 | 4,14,233 8 11 | IQ,597 8 7 | 4,19,506 5 0 | 4,39,201 13 7 | 24,970 4 8 | 244 | |
| communication () | | | | | | | | | |
| SOUTHERN CIRCLE Direction | | 17,404 13 8 | 17,404 13 8 | . 136 3 4 | 17,774 1 2 | 17910 4 6 | ot d to | >08 | |
| Balagint , | | 1,28,231 12 10 | 1,28,231 12 10 | 13,972 9 10 | 1,27,493 1 8 | 1,41,434 II G | 13,202 14 8 | | |
| Balaghat Forest School | | 22,877 0 11 | 22,877 0 11 | -3,0,8 3 2 | 22,566 to 5 | 19,518 7 3 | ,,, | -3,358 g 8 | |
| Chandara | | 66,438 o o | 66,438 0 0 | 1,137 11 7 | 66,216 1 2 | 67,353 12 9 | 915 12 9 | *** | |
| Bilaspur . | | 67,262 2 6 | 67,262 2 6 | 5,053 4 8 | 67,023 11 0 | 72,076 15 3 | 4,Bt (12 g | <i></i> | |
| North Chanda . | .] | 7,39,949 I3 O | r,39,949 13 O | 4,217 11 5 | 1,41,508 13 6 | 1,45,726 8 11 | 5,776 11 11 | | |
| South Changa | | 1,01,448 2 1 | 1,03,44B 2s 1 | 17,736 4 1 | 96,379 5 3 | 1,14,115 D 4 | 10,667 7 3 | ••• | |
| Nagpur-Wardha . | | 89,94r 9 1 | 89,941 9 1 | 8,604 I 8 | 86,317 4 0 | 94,961 g 8 | £,019 12 7 | *** | |
| Raiper | , | 1,20,905 6 2 | 1,20,00\$ 6 2 | 4:747 23 I | 1,20,467 11 10 | 1,25,215 7 11 | 4,310 1 9 | | |
| Total . | | 7,56 458 79 3 | 7,45,448 12 3 | \$2,557 7 1 | 7,45,755 12 0 | 7,98,713 3 1 | 45 213 0 G | -3,158 9 8 | |
| | | | | | | | | | |
| BBRAR CIRCLE. Direction | | 87,404 4 3 | 20,404 4 2 | 206 5 6 | 20,421 5 2 | 20,627 10 8 | 223 7 6 | | |
| Amraeti | | 42,767 I 6 | 42,767 I d | • | 49,883 12 4 | 44,281 13 TO | 9,014 19 4 | *** | |
| * ********* | | 68,185 x x | 68,185 I I | 1 | 73,892 13 11 | 75,704 14 2 | | | |
| # #7. ed-me1 | | 81,446 g o | 81,446 g o | | Ì | 82,479 15 10 | 1,024 6 10 | *** | |
| à basa | | 47,212 8 1 | 47,212 3 1 | | | 47,568 I to | | | |
| 73. 4t | | 84,801 5 5 | 84,80x 5 5 | | | 90,718 8 10 | i | | |
| Rations | | 56,814 2 2 | | 1 | 1 | 70,025 13 11 | | | į |
| XVI day and | *** | 1 60,400 7 10 | | | | 1 | | | |
| Maket | " | \$472,031 4 3 | 5,73,031 4 8 | | | 1,86,935 11 1 6,14,135 20 2 | | | 1 |
| GRAND TOTAL C AND BLRAR. | P · | 17,42,723 9 6 | | | | 18,50,650 10 10 | | | 1 |

⁽a) Represent figures of the Jubbulpore Division for the whole year and those of the Narsinghpur Division for 3 months April—June 1913.

(b) Represent figures up to 31st March 1913.

(c) Do.

(d) do.

(d) Represent figures for months and those of the Narsinghpur Division for 3 months April—June 1913.